Day-Brite

SofTrace 2STX

2x2 up to 4500 lumens







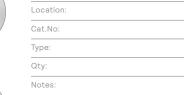
Day-Brite/CFI SofTrace LED recessed is a fully luminous aperture luminaire providing contemporary appeal to architectural spaces. This linear form includes a round profile center and contiguous contoured sides with balanced glare to provide a clean aesthetic appeal. An architectural style coupled with control options makes SofTrace an ideal for applications such as office, institutional, and healthcare where energy savings and customized effects are desired.



Now available with AccuRender technology for the highest color quality at the highest efficacy.



DS lens (smooth)



Project:



D lens (ribbed)

Base configurations are indicated in blue. Standard configurations are available with all choices, unless otherwise noted.

Ordering guide (standard & wireless controls)

example: 2STXG38L840-2-DS-UNV-DIM-SWZCS

Series	Ceiling Type	Lumens (nominal delivered	Efficacy		Color (CRI/CCT)	Len		enter iffuser	Voltage		Drive	r	Options	
2STX	G				-	- 2]-	-		-		-		
2STX 2' SofTrace gen 2	G Grid	Base configs 38B 3800 Standard configs 30L 3000 38L 3800 45L 4500 Other options may be ordered in increments of 100Im from 3000 to 4500Im	-	h	330 80 C 3000 3000 335 80 C 3500 340 80 C 4000 3850 80 C 5000 AccuRend 330 90 C 3000 3000 340 90 C 4000	DK RI, DK RI, DK RI, DK RI, DK RI, DK RI, RI, DK RI, RI, DK RI, DK RI, DK RI,		Diffuse (ribbed) S Diffuse (smooth)		tage,)-277V 7V	SDIM	Dimming Step dimming to 40% input power Lutron LDE1, 1% dimming DALI dimming	F2 3 F1/D 3 F2/5W 3 F2/6W 3 F2/6W 3 GLR FDSC 6 CHIC ³ 6	3/8" flex, 18ga. 6'; 3 leads include hot, neutral, ground 3/8" flex, 18ga. 6'; 4 leads include 2 hots, neutral, ground 3/8" twin flex, 18ga. 6' (for dimmable); Flex 1: 3 leads include hot, neutral, ground Flex 2: 2 leads, Dim+ / Dim- 3/8" single flex, 18ga. 6' (for dimmable); 5 leads include hot, neutral, ground, Dim+ / Dim- 3/8" single flex, 18ga. 6' (for dim & EM); 5 leads include 2 hot, neutral, ground, Dim+ / Dim- Fusing, fast blow Quick driver disconnect Chicago Plenum rated
Ordering		e - PoE cont	rols				e)	xample: 2S	TXG38L8	840-2-	-DS-L	_V-POE-IAO	BSL6LST BSL10LS ER100 ^{4,6,7}	T ⁴ Bodine 10W selftesting battery pack UL924 listed sensor bypass relay, factory installed between driver &
Family 2STX	Ceiling Type	(nom. delivered)	Efficacy Co	olor –	Length	Center Diffuser	Volta	Driver	Driv	rer	өг		GTD/E ^{4,6}	
2STX 2' SofTrace gen 2	G Grid		30 83 80 35 84 80 40 85 80	0 CRI, 000K 35 0 CRI, 500K 40 0 CRI, 000K	2 2'	D Diffuse (ribbed) DS Diffuse (smooth)	LV Low volta	ge POE Power over Ethern	et IAO Inte dayl sens con IAO Inte wire SC2	EMPOE 600lm integral emergency driver and battery pack IAO Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control IAOSB Interact Office advanced wired sensor bundle, integral SC2000 w/loT capabilities for enterprise scale projects			daylight & occupancy sensing, advanced grouping with dwell time Interact RF sensor for wireless connectivity only, no sensing	

Footnotes

- 1. Integral controls options dimmable to 5% via wireless wall switch. Non-controls options are 0-10v dimmable to 1% for Standard configurations, and to 10% for Base configurations
- 2. Specify only with -DIM driver option.
- 3. CHIC option not provided with air return functionality.
- 4. Not available with 347V.
- 5. High efficacy option may only be ordered with Standard lumen configurations.
- 6. Must be installed in conjunction with a UL1008 device.
- 7. Must be ordered with an integral sensing option.
- 8. AccuRender is 90CRI with R₉>50.
- 9. Option is qualified as Engineered-to-Order (ETO) ready. Lead times and minimum order quantities may vary, please consult factory. (DLC Standard efficacy only)
- 10. Must order IRT9015 Interact commissioning remote with each system order.

Accessories (order separately)

enterprise scale projects

- · FSF422 2'x2' surface mount field installation kit (field assembled)
- FMA22 2'x2' "F" mounting frame for NEMA "F" ceiling
- STXDS22L 2'x2' SofTrace Gen2 smooth replacement lens
- STXDS22LC 2'x2' SofTrace Gen2 with controls smooth replacement lens
- STXD22L 2'x2' SofTrace Gen2 ribbed replacement lens
- STXD22LC 2'x2' SofTrace Gen2 with controls ribbed replacement lens

SWZCS accessories (order separately)

• IRT9015 - handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search











2x2 recessed luminaire (up to 4500 lumens)

Application

- Ideal for modern offices, institutional, retail, and healthcare applications.
- Modern architectural styling to complementary space.
- Full width luminous lens provides smooth brightness and high visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- Available in standard efficacy and high efficacy (H) configurations up to 130lm/W.
- 80 CRI minimum source provides a balanced spectral power distribution.
- AccuRender 90 CRI source provides preferred color quality.
- Suitable for use with NEMA G (15/16") and NFG (9/16") suspended t-grid ceilings. NEMA F flange ceilings require the FMA24 accessory (ordered separately).

Environment

• Rated for dry or damp locations in operating ambient temperatures 0-30°C (32-86°F). Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Not suitable for natatorium environments.

Construction/Finish

- Robust and durable die-formed embossed steel housing and end caps.
- Molded one-piece acrylic diffuser may be removed without tools for access to LED boards and driver(s).
- Unique spring retainers ensure the diffuser is centered in the housing opening at all times.
- T-bar grid clips are built into luminaire end caps for quick and easy installation, no extra parts.
- Air return functionality is standard for all configurations. See air flow and noise data on page 5.
- Suitable for end to end continuous row mounting.
 1" gap between luminaires requires chase nipple to accommodate through wiring (by others).
- Sheet metal components are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance basked white enamel.
- Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.

Validation

- · cETLus listed for use in damp locations
- When ordered with -WL option code, suitable for use in wet locations with covered ceilings
- · Rated for direct contact with insulation (IC)
- · CCEA Chicago Plenum listed
- SofTrace luminaires are Designlights
 Consortium® qualified. Please see the
 DLC QPL list for exact catalog numbers,
 www.designlights.org/QPL

Electrical

- Driver and LED board are accessible from below by easy removal of lens.
- Non-controls Base configurations 0-10V dimmable to 10%.
- Non-controls Standard configurations 0-10V dimmable to 1%.
- Standard configurations with controls options dimmable via wireless switches (see below).
- Predicted L70 lumen maintenance up to 85,000 hours at 25°C ambient for all configurations.
- Emergency battery packs accessible from above.
 To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power.
 Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.
- Compliance to CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

Warranty

5 year manufacturer's limited warranty.
 Visit signify.com/warranties for complete warranty information.

Energy data

Configuration	Nominal CCT/CRI	Flux (lm)	Input Power (W)	Efficacy (LPW)	DLC
2STXG38B835	3500K/80	3953	34	116	Standard
2STXG38B840	4000K/80	3974	34	116	Standard
2STXG30L835	3500K/80	3019	26	114	Standard
2STXG30L840	4000K/80	3026	26	114	Standard
2STXG30LH835	3500K/80	2994	24	124	Standard
2STXG30LH840	4000K/80	3067	24	127	Premium
2STXG38L835	3500K/80	3838	34	113	Standard
2STXG38L840	4000K/80	3846	34	125	Standard
2STXG38LH835	3500K/80	3750	30	128	Premium
2STXG38LH840	4000K/80	3840	30	130	Premium
2STXG45L835	3500K/80	4538	42	109	Standard
2STXG45L840	4000K/80	4566	42	110	Standard
2STXG45LH835	3500K/80	4557	36	126	Premium
2STXG45LH840	4000K/80	4652	36	129	Premium

2x2 recessed luminaire (up to 4500 lumens)

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity.
 The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote on-site to identify and group devices together.

Compatible with:

- SWS200 & UID8465 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
- LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
- LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity.
 The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

SofTrace shown with integral sensor



Sensor bundle (IAOSB or SB)

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSORIA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available. Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB or SB option in addition to occupancy and daylights sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: interact-lighting.com/interactproscalablesystem

Emergency Options (ER100)

- Power Sensing (factory default) –
 Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (field option) Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact supported sensor option codes across Genlyte Solutions product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-

Wired Controls Options

Interact Office Wired (PoE)

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- PoE lighting controller is accessible from below.

- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output.
 Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information, visit: www.interactlighting.com/office or www.usa.lighting.philips. com/systems/system-areas/offices

Energy Data (PoE)

Configuration	Nominal CCT/CRI	Flux (lm)	DC Power (W)*	Efficacy (LPW)
2STXG30L840	4000K/80	3067	24	126
2STXG38L840	4000K/80	3902	32	122
2STXG45L840	4000K/80	4634	39	118

^{*}DC power supply

2x2 recessed luminaire (up to 4500 lumens)

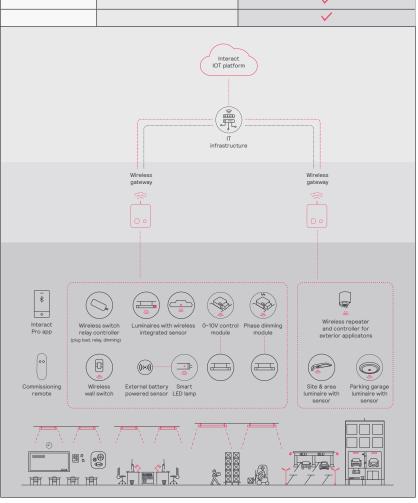
interact **Gateway Connected** Option 2 Option 1 Dimming, grouping, and zoning Bluetooth and ZigBee enabled Motion sensing and daylight harvesting Integration with 0-10V and phase dimming fixtures Code compliance Granular dimming and dwell time Correlated color temperature (CCT) tuning by switch Support for sensor-based Tunable White luminaires New **Energy reporting and monitoring** Scheduling Demand response BMS integration (BACnet) Floor plan visualization IoT sensors for wellness IoT Apps for productivity

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

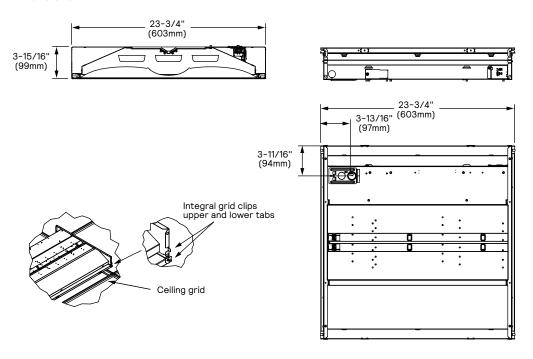
System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
Luminaires with integrated sensors	150
Smart TLEDS	150
Zones + groups	64
Total number of ZGP devices (sensors and switches)	50
Sensors	30
Switches	50

Group level							
Recommended number of lights	40 (maximum 150)						
Number of ZGP devices	5						
Number of scenes	16						



2x2 recessed luminaire (up to 4500 lumens)

Dimensions

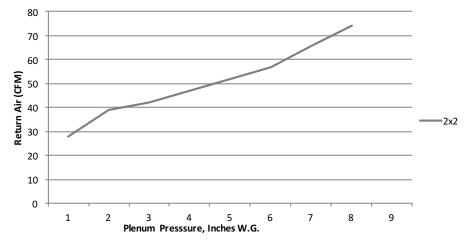


Air return



Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.

Return Air Data



		2x2 Return Air - noise criteria									
CFM	28	39	42	47	52	57	65.5	74			
NC (dB)	<15	26	31	33	38	42	44	46			

2x2 recessed luminaire (up to 4500 lumens)

Photometry

2x2 SofTrace recessed LED, base configuration, 3800 nominal delivered lumens

LER - 115

Catalog No. 2STXG38B840-2-D-UNV-DIM

 Test No.
 40559

 S/MH
 1.3

 Lamp Type
 LED

 Lumens
 3971

 Input Watts
 34

Comparative yearly lighting energy cost per 1000 lumens – **\$2.09** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower										
Angle	End	45	Cross	Back 45						
0	1398	1398	1398	1398						
5	1382	1392	1397	1392						
15	1326	1340	1351	1340						
25	1217	1238	1255	1238						
35	1065	1093	1118	1093						
45	884	915	943	915						
55	691	713	742	713						
65	452	509	529	509						
75	234	274	302	274						

85 | 66 | 82 | 76 | 82

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1080	27.2
0-40	1763	44.4
0-60	3108	78.2
0-90	3972	100
0-180	3972	100

Average Luminance

Zone	End	45°	Cross
45	4106	4251	4380
55	3961	4085	4248
65	3517	3958	4115
75	2972	3473	3838
85	2477	3103	2876

Coefficients of Utilization

Effective Floor Cavity Reflectance 20 Per (pfc=0.20)									
Ceil		80			70	50			
Wall	70	50	30	70	50	30	50	30	
RCR									
0	118	118	118	115	115	115	111	111	
1	109	104	98	106	101	96	96	93	
2	98	90	82	95	88	81	84	79	
3	90	79	70	86	78	69	75	68	
4	81	69	60	80	68	59	66	58	
5	76	63	53	72	60	53	58	52	
6	69	56	46	68	55	46	54	46	
7	65	51	41	63	50	41	48	40	
8	59	46	38	58	46	38	45	36	
9	56	42	34	55	41	34	40	34	
10	53	39	30	51	39	30	38	30	

2x2 SofTrace recessed LED, standard configuration, 3800 nominal delivered lumens

Catalog No. 2STXG38L840-2-D-UNV-DIM

 Test No.
 40553

 S/MH
 1.3

 Lamp Type
 LED

 Lumens
 3846

 Input Watts
 34

Comparative yearly lighting energy cost per 1000 lumens – **\$2.14** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back 45
0	1362	1362	1362	1362
5	1347	1356	1362	1356
15	1292	1305	1316	1305
25	1185	1205	1223	1205
35	1036	1064	1087	1064
45	861	890	917	890
55	674	693	721	693
65	425	462	479	462
75	227	265	294	265
85	63	84	76	84

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1051	27.3
0-40	1716	44.6
0-60	3025	78.6
0-90	3846	100
0-180	3847	100

Average Luminance

Zone	End	45°	Cross
45	3999	4135	4259
55	3859	3971	4129
65	3303	3589	3726
75	2880	3365	3727
85	2383	3159	2876

Coefficients of Utilization

Effective Floor Cavity Reflectance 20 Per (pfc=0.20)								
Ceil		80			70		50	
Wall	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	109	104	98	106	101	96	96	93
2	98	90	82	95	88	81	84	79
3	90	79	70	86	78	69	75	68
4	81	69	60	80	68	60	66	58
5	76	63	54	73	61	53	58	52
6	69	56	46	68	55	46	54	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	30	38	30

2x2 SofTrace recessed LED, high efficacy configuration, 3800 nominal delivered lumens

LER - 128

LER - 112

Catalog No. 2STXG38LH840-2-D-UNV-DIM

 Test No.
 40572

 S/MH
 1.3

 Lamp Type
 LED

 Lumens
 3840

 Input Watts
 30

Comparative yearly lighting energy cost per 1000 lumens – **\$1.88** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back 45
0	1363	1363	1363	1363
5	1348	1358	1363	1358
15	1293	1307	1317	1307
25	1186	1206	1223	1206
35	1039	1066	1089	1066
45	862	891	917	891
55	663	694	721	694
65	425	454	479	454
75	223	265	294	265
85	62	79	76	79

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1053	27.4
0-40	1719	44.8
0-60	3025-	78.8
0-90	3840	100
0-180	3841	100

Average Luminance

Zone	End	45°	Cross
45	4003	4141	4263
55	3796	3976	4128
65	3305	3529	3725
75	2832	3359	3728
85	2326	2993	2873

Coefficients of Utilization

	80		70		50		
70	50	30	70	50	30	50	30
118	118	118	115	115	115	111	111
109	104	98	106	101	96	96	93
98	90	82	95	88	81	84	79
90	79	70	86	78	69	75	68
81	69	60	80	68	60	66	58
76	63	54	73	61	53	58	52
69	56	46	68	56	46	54	46
65	51	41	63	50	41	48	40
59	46	38	58	46	38	45	36
56	42	34	55	41	34	40	34
53	40	32	52	39	30	38	30
	70 118 109 98 90 81 76 69 65 59	80 70 50 118 118 109 104 98 90 90 79 81 69 76 63 69 56 65 51 59 46 56 42	80 70 50 30 118 118 118 109 104 98 98 90 82 90 79 70 76 63 54 69 56 46 65 51 41 59 46 38 56 42 34	80 70 50 30 70 118 118 118 115 109 104 98 106 98 90 82 95 90 79 70 86 81 69 60 80 76 63 54 73 69 56 46 68 65 51 41 63 59 46 38 58 56 42 34 55	118 118 115 115 109 104 98 106 101 98 90 82 95 88 90 79 70 86 78 81 69 60 80 68 76 63 54 73 61 69 56 46 68 56 65 51 41 63 50 59 46 38 58 46 56 42 34 55 41	80 70 70 50 30 70 50 30 118 118 115 115 115 115 109 104 98 106 101 96 98 90 82 95 88 81 90 79 70 86 78 69 60 80 68 60 66 66 66 66 66 66 66 46 68 56 46 66 56 46 68 56 46 38 58 46 38 56 42 34 55 41 34	70 50 30 70 50 30 50 118 118 118 115 115 115 111 109 104 98 106 101 96 96 98 90 82 95 88 81 84 90 79 70 86 78 69 75 81 69 60 80 68 60 66 76 63 54 73 61 53 58 69 56 46 68 56 46 54 65 51 41 63 50 41 48 59 46 38 58 46 38 45 56 42 34 55 41 34 40

Effective Floor Cavity Reflectance 20 Per (nfc=0.20)

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