LEDALITE - BLOOMBOX

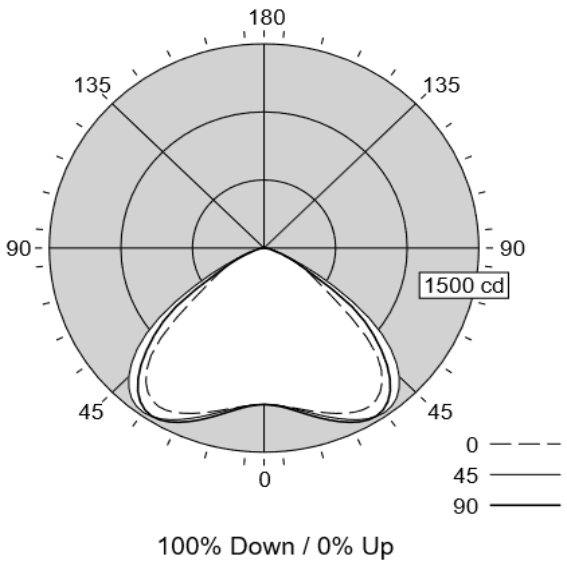
LEDALITE by signify

TEST DATE:	28 Sep 2023	**CATALOG NO:**	**BB22D1STL94040Y1DE**
Lamp Type:	LED	**Description:**	4000LM BLOOMBOX 940
No. of Lamps:	1		
Rated Lamp Lumens:	-1	**Flux (lm), Efficiency (%):**	4003 lm 100%
Input Watts:	120 VAC 23.4	**Up/Dn Ratio, Efficacy (lm/W):**	100% Down / 0% Up 171.1
CIE-IES Classification:	Direct	**Report:**	F44606

CANDELA DISTRIBUTION

	0	22.5	45	67.5	90	Flux Lumens
0	1149	1149	1149	1149	1149	
5	1162	1161	1161	1165	1166	112
15	1238	1242	1254	1269	1275	358
25	1339	1356	1391	1412	1412	641
35	1364	1411	1473	1471	1451	897
45	1117	1223	1336	1276	1216	951
55	504	609	896	846	750	663
65	243	278	300	274	239	278
75	77	76	76	68	64	83
85	19	18	16	14	13	19
90	1	1	1	1	1	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

POLAR CANDELA PLOT



CHARACTERISTICS

RP1				None
Direct: Peak Candela & Angle (0°)			1377.9	32.5
Direct: Peak Candela & Angle (90°)			1463.0	32.5
Spacing Criteria (0°, 90°, 180°)		1.68	1.74	N/A
Beam (H, V), Field (H, V)	108.6	100.3	139.7	135.6
Indirect: Peak Candela & Angle(°)			N/A	N/A
Indirect: Zenith Candela, Peak to Zenith			N/A	N/A
Luminous Width, Length, Height (ft)		1.69	1.87	0.00
DLC, UGR (4H x 8H, 1.0H), MDER		N/A	17.9	0.638
x, y, CCT, D_{uv}	0.3897	0.3854	3823	0.0014
CRI (R_a), R_9, G_a, C_9	93	60	97	93
TM-30-18 R_f, $R_{f,h1}$, R_g, $R_{cs,h1}$	89	88	97	-6%
120V: P(W), I(A), THD(%), PF	23.4	0.196	5.1	0.997
277V: P(W), I(A), THD(%), PF	23.3	0.086	7.7	0.977
347V: P(W), I(A), THD(%), PF	N/A	N/A	N/A	N/A

COEFFICIENTS OF UTILIZATION (%)

Pc---	80				70			50			0
Pw---	70	50	30	10	70	50	30	50	30	10	0
RCR											
0	119	119	119	119	116	116	116	111	111	111	100
1	110	106	103	99	108	104	101	100	97	95	87
2	102	94	88	83	99	92	87	89	84	80	75
3	93	84	76	70	91	82	75	79	73	68	64
4	85	74	66	60	83	73	65	71	64	59	55
5	79	67	58	52	77	65	57	63	56	51	48
6	73	60	51	45	71	59	51	57	50	45	42
7	67	54	46	40	65	53	45	52	44	39	37
8	62	49	41	35	61	48	41	47	40	35	33
9	58	45	37	31	57	44	37	43	36	31	29
10	54	41	33	28	53	41	33	40	33	28	26

*Based on a floor reflectance of 0.2

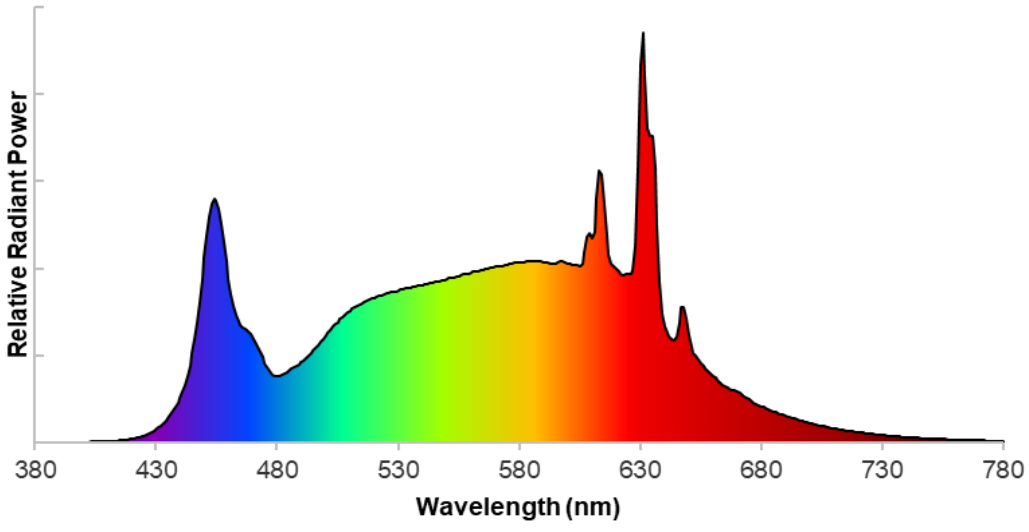
ZONAL LUMENS (lm)

Zone	Lumens	%Fixture	%Lamp
0-30	1111	27.8%	27.8%
0-40	2008	50.2%	50.2%
0-60	3623	90.5%	90.5%
0-90	4003	100.0%	100.0%
90-130	0	0.0%	0.0%
90-150	0	0.0%	0.0%
90-180	0	0.0%	0.0%
0-180	4003	100.0%	100.0%

AVG LUMINANCE (cd/m²)

	0	45	90
0	3914	3914	3914
5	3971	3969	3986
15	4364	4419	4492
25	5031	5225	5306
35	5671	6123	6032
45	5378	6432	5855
55	2994	5318	4451
65	1955	2419	1925
75	1013	998	837
85	743	620	490

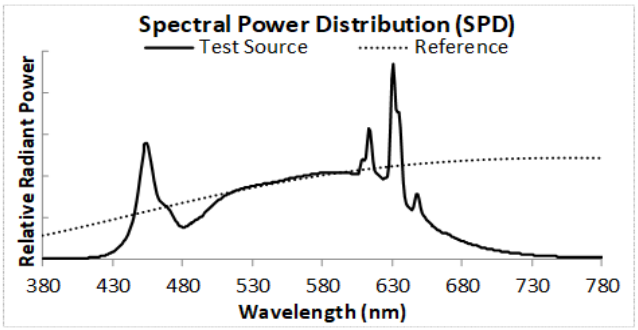
SPECTRAL POWER DISTRIBUTION

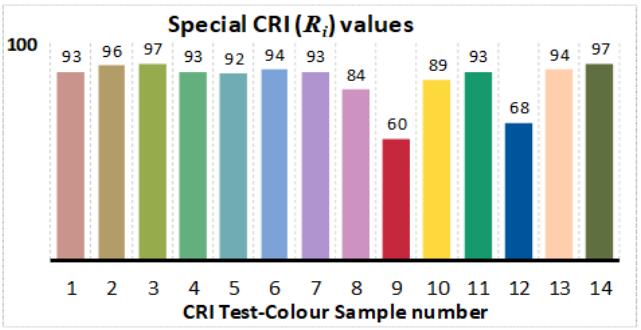


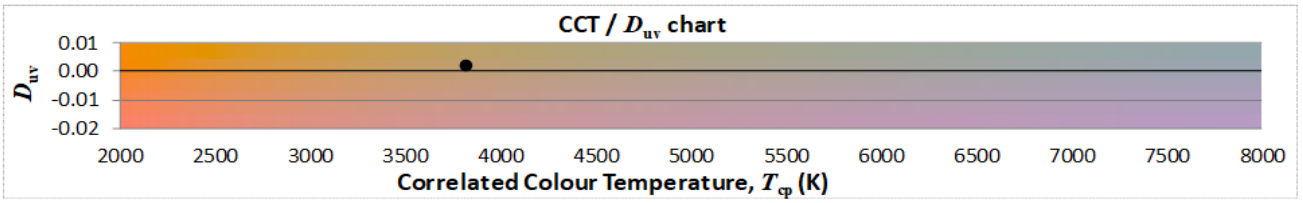
Output of GLA Calculation Tool for CIE 13.3 CRI and Associated CRI-based Colour Rendition Properties

Test Number:	F44606	**Manufacturer:**	Ledalite by Signify
Date:	29 Sep 2023	**Model:**	BloomBox

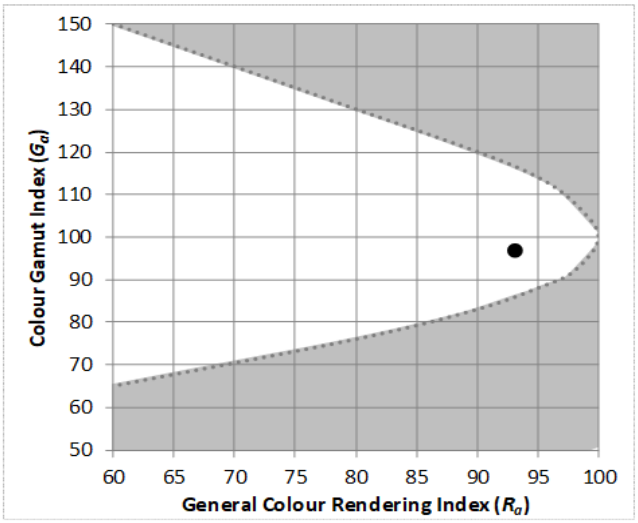
Correlated Colour Temperature (T_{cp}) in K	3823	**CIE1931 chromaticity coordinate, x**	0.3897
Distance to Blackbody Locus (D_{uv})	0.0014	**CIE1931 chromaticity coordinate, y**	0.3854
General Colour Rendering Index (R_a)	93	**CIE1976 chromaticity coordinate, u'**	0.2277
Red Rendering Index (R_9)	60	**CIE1976 chromaticity coordinate, v'**	0.5067
Colour Gamut Index (G_a)	97		
Red Chroma Index (C_9)	93		



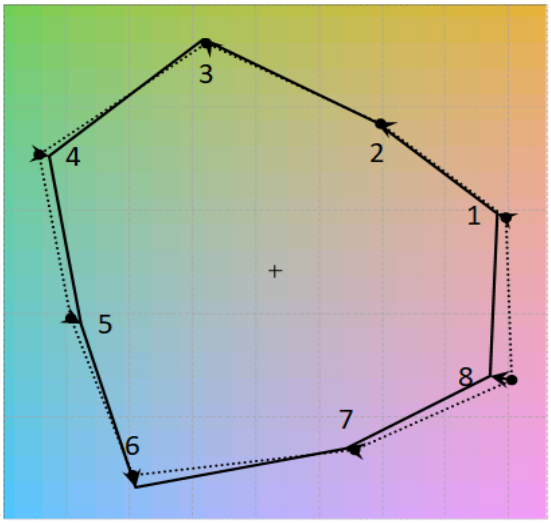


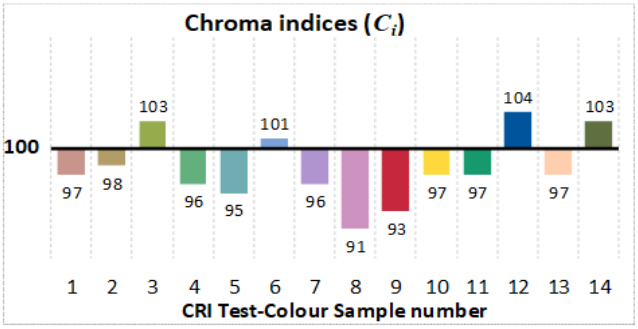


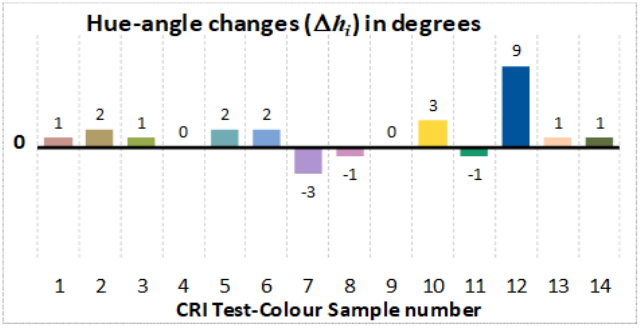
Two-dimensional R_a-G_a Graphic



Colour-shift graphic



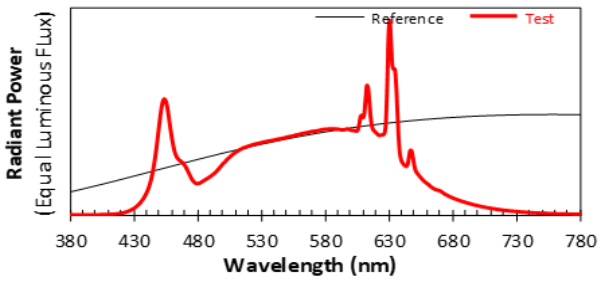


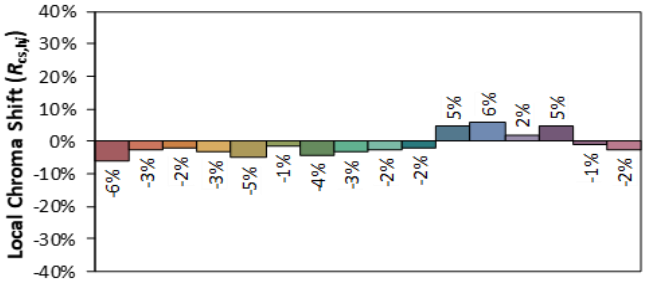


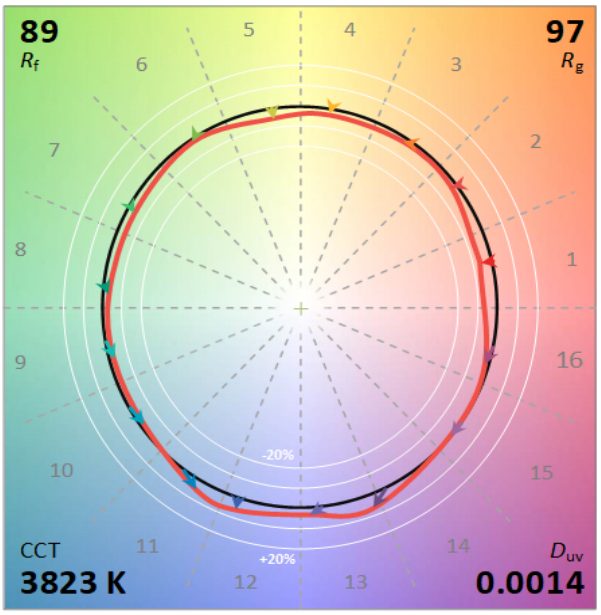
ANSI/IES TM-30-18 Color Rendition Report

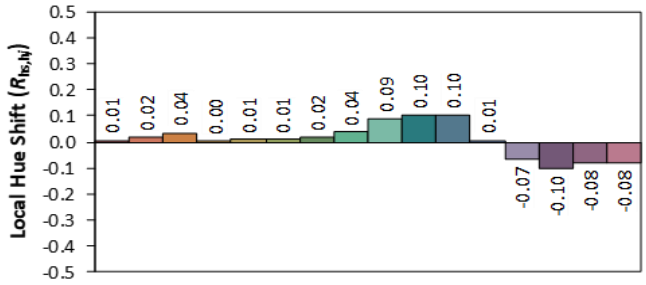
Source: F44606 **Manufacturer:** Ledalite by Signify

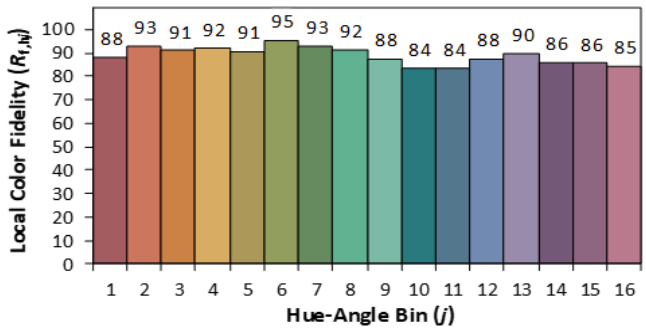
Date: 29 Sep 2023 **Model:** BloomBox

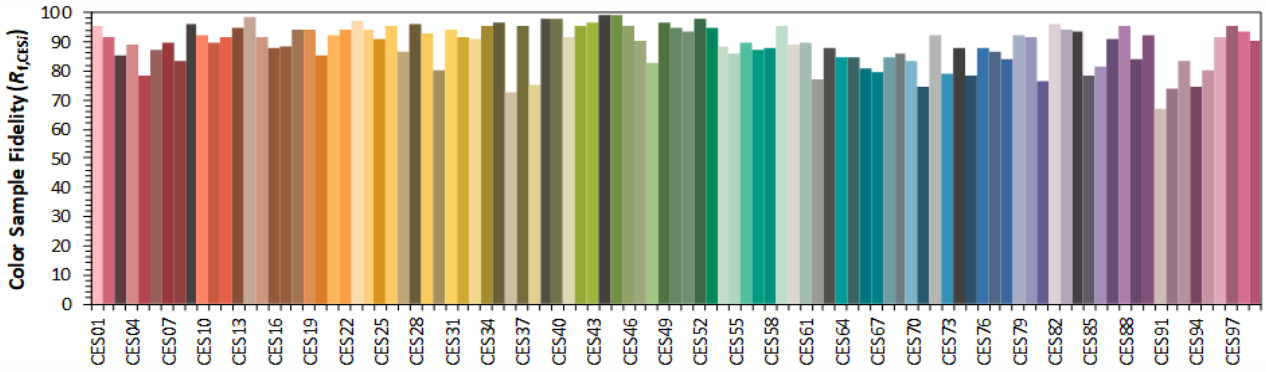












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	**0.3897**
y	**0.3854**
u'	**0.2277**
v'	**0.5067**

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.

SPECTRAL POWER DISTRIBUTION

λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD
380	0.00010	425	0.00130	470	0.01960	515	0.02590	560	0.03150	605	0.03280	650	0.02000	695	0.00430	740	0.00100
381	0.00010	426	0.00150	471	0.01880	516	0.02620	561	0.03170	606	0.03320	651	0.01780	696	0.00420	741	0.00100
382	0.00010	427	0.00170	472	0.01790	517	0.02640	562	0.03180	607	0.03540	652	0.01670	697	0.00400	742	0.00100
383	0.00010	428	0.00200	473	0.01680	518	0.02650	563	0.03190	608	0.03830	653	0.01610	698	0.00390	743	0.00090
384	0.00010	429	0.00220	474	0.01580	519	0.02670	564	0.03200	609	0.03900	654	0.01540	699	0.00380	744	0.00090
385	0.00010	430	0.00250	475	0.01480	520	0.02690	565	0.03210	610	0.03800	655	0.01480	700	0.00370	745	0.00090
386	0.00010	431	0.00280	476	0.01390	521	0.02700	566	0.03220	611	0.03920	656	0.01430	701	0.00350	746	0.00080
387	0.00010	432	0.00320	477	0.01320	522	0.02720	567	0.03230	612	0.04520	657	0.01370	702	0.00340	747	0.00080
388	0.00010	433	0.00360	478	0.01270	523	0.02740	568	0.03240	613	0.05060	658	0.01320	703	0.00330	748	0.00080
389	0.00010	434	0.00410	479	0.01240	524	0.02750	569	0.03250	614	0.04980	659	0.01280	704	0.00320	749	0.00080
390	0.00010	435	0.00460	480	0.01230	525	0.02770	570	0.03270	615	0.04440	660	0.01240	705	0.00310	750	0.00070
391	0.00010	436	0.00520	481	0.01230	526	0.02780	571	0.03270	616	0.03850	661	0.01210	706	0.00300	751	0.00070
392	0.00010	437	0.00590	482	0.01250	527	0.02790	572	0.03280	617	0.03480	662	0.01160	707	0.00290	752	0.00070
393	0.00010	438	0.00660	483	0.01280	528	0.02800	573	0.03280	618	0.03330	663	0.01120	708	0.00280	753	0.00070
394	0.00010	439	0.00740	484	0.01310	529	0.02810	574	0.03290	619	0.03280	664	0.01080	709	0.00280	754	0.00070
395	0.00010	440	0.00840	485	0.01340	530	0.02820	575	0.03300	620	0.03230	665	0.01050	710	0.00270	755	0.00060
396	0.00010	441	0.00950	486	0.01370	531	0.02840	576	0.03310	621	0.03180	666	0.01020	711	0.00260	756	0.00060
397	0.00010	442	0.01080	487	0.01400	532	0.02850	577	0.03320	622	0.03130	667	0.01000	712	0.00250	757	0.00060
398	0.00010	443	0.01240	488	0.01430	533	0.02860	578	0.03340	623	0.03110	668	0.00980	713	0.00240	758	0.00060
399	0.00010	444	0.01420	489	0.01460	534	0.02870	579	0.03340	624	0.03120	669	0.00970	714	0.00230	759	0.00060
400	0.00010	445	0.01650	490	0.01500	535	0.02880	580	0.03350	625	0.03130	670	0.00960	715	0.00230	760	0.00050
401	0.00010	446	0.01920	491	0.01530	536	0.02890	581	0.03350	626	0.03140	671	0.00930	716	0.00220	761	0.00050
402	0.00010	447	0.02240	492	0.01570	537	0.02900	582	0.03350	627	0.03210	672	0.00900	717	0.00210	762	0.00050
403	0.00010	448	0.02620	493	0.01610	538	0.02910	583	0.03360	628	0.03650	673	0.00860	718	0.00210	763	0.00050
404	0.00020	449	0.03030	494	0.01650	539	0.02920	584	0.03360	629	0.05110	674	0.00830	719	0.00200	764	0.00050
405	0.00020	450	0.03450	495	0.01700	540	0.02920	585	0.03360	630	0.07010	675	0.00800	720	0.00190	765	0.00050
406	0.00020	451	0.03850	496	0.01760	541	0.02940	586	0.03370	631	0.07600	676	0.00770	721	0.00190	766	0.00050
407	0.00020	452	0.04190	497	0.01810	542	0.02950	587	0.03370	632	0.06800	677	0.00750	722	0.00180	767	0.00040
408	0.00020	453	0.04430	498	0.01870	543	0.02960	588	0.03360	633	0.05840	678	0.00720	723	0.00180	768	0.00040
409	0.00020	454	0.04530	499	0.01930	544	0.02970	589	0.03360	634	0.05700	679	0.00700	724	0.00170	769	0.00040
410	0.00020	455	0.04490	500	0.01990	545	0.02980	590	0.03350	635	0.05700	680	0.00680	725	0.00170	770	0.00040
411	0.00030	456	0.04330	501	0.02040	546	0.02990	591	0.03350	636	0.05090	681	0.00660	726	0.00160	771	0.00040
412	0.00030	457	0.04060	502	0.02090	547	0.03000	592	0.03340	637	0.04030	682	0.00640	727	0.00150	772	0.00040
413	0.00030	458	0.03720	503	0.02150	548	0.03010	593	0.03330	638	0.02990	683	0.00620	728	0.00150	773	0.00040
414	0.00030	459	0.03380	504	0.02200	549	0.03020	594	0.03330	639	0.02390	684	0.00600	729	0.00150	774	0.00040
415	0.00040	460	0.03040	505	0.02240	550	0.03040	595	0.03330	640	0.02150	685	0.00580	730	0.00140	775	0.00040
416	0.00040	461	0.02760	506	0.02290	551	0.03050	596	0.03340	641	0.02040	686	0.00570	731	0.00140	776	0.00030
417	0.00050	462	0.02530	507	0.02330	552	0.03060	597	0.03360	642	0.01970	687	0.00550	732	0.00130	777	0.00030
418	0.00050	463	0.02370	508	0.02380	553	0.03070	598	0.03360	643	0.01930	688	0.00530	733	0.00130	778	0.00030
419	0.00060	464	0.02260	509	0.02410	554	0.03080	599	0.03340	644	0.01900	689	0.00520	734	0.00120	779	0.00030
420	0.00070	465	0.02190	510	0.02450	555	0.03090	600	0.03330	645	0.01970	690	0.00500	735	0.00120	780	0.00030
421	0.00080	466	0.02140	511	0.02480	556	0.03100	601	0.03310	646	0.02240	691	0.00490	736	0.00120		
422	0.00090	467	0.02110	512	0.02510	557	0.03120	602	0.03300	647	0.02520	692	0.00470	737	0.00110		
423	0.00100	468	0.02070	513	0.02540	558	0.03130	603	0.03300	648	0.02520	693	0.00460	738	0.00110		
424	0.00120	469	0.02020	514	0.02570	559	0.03140	604	0.03290	649	0.02300	694	0.00440	739	0.00110		

UNIFIED GLARE RATING

Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.9	16.5	15.3	16.8	17.1	17.2	18.8	17.6	19.1	19.4
	3H	15.5	16.9	15.9	17.2	17.6	17.6	18.9	17.9	19.3	19.6
	4H	15.6	16.9	16.0	17.3	17.6	17.6	18.9	18.0	19.2	19.6
	6H	15.7	16.9	16.1	17.3	17.7	17.6	18.8	18.0	19.1	19.5
	8H	15.7	16.9	16.2	17.3	17.7	17.5	18.7	18.0	19.1	19.5
	12H	15.8	16.8	16.2	17.2	17.6	17.5	18.6	18.0	19.0	19.4
4H	2H	15.4	16.7	15.8	17.1	17.4	17.4	18.7	17.8	19.1	19.4
	3H	16.1	17.1	16.5	17.5	17.9	17.8	18.9	18.2	19.3	19.7
	4H	16.2	17.2	16.7	17.6	18.0	17.9	18.8	18.3	19.2	19.7
	6H	16.4	17.2	16.9	17.6	18.1	17.9	18.7	18.4	19.1	19.6
	8H	16.4	17.2	16.9	17.6	18.1	17.9	18.6	18.4	19.1	19.5
	12H	16.5	17.1	16.9	17.6	18.1	17.9	18.5	18.3	19.0	19.5
8H	4H	16.3	17.0	16.7	17.5	17.9	17.8	18.6	18.3	19.0	19.5
	6H	16.4	17.1	16.9	17.6	18.1	17.9	18.5	18.4	19.0	19.5
	8H	16.5	17.1	17.0	17.6	18.1	17.9	18.4	18.4	18.9	19.4
	12H	16.6	17.1	17.1	17.6	18.1	17.8	18.4	18.4	18.9	19.4
12H	4H	16.2	16.9	16.7	17.4	17.9	17.8	18.5	18.3	19.0	19.4
	6H	16.4	17.0	17.0	17.5	18.0	17.8	18.4	18.4	18.9	19.4
	8H	16.5	17.0	17.0	17.5	18.1	17.8	18.4	18.4	18.9	19.4

The UGR values have been calculated according to CIE Publ. 117.

Spacing-to-Height-Ratio = 1.00.

The highlighted value refers to the UGR value which the luminaire would have in a reference situation with room dimensions of 4H/8H and degrees of reflectance of 20% for the floor, 50% for the walls and 70% for the ceiling, as recommended by DLC.

The UGR value may vary depending on application specific parameters.