

# LEDALITE - BLOOMBOX

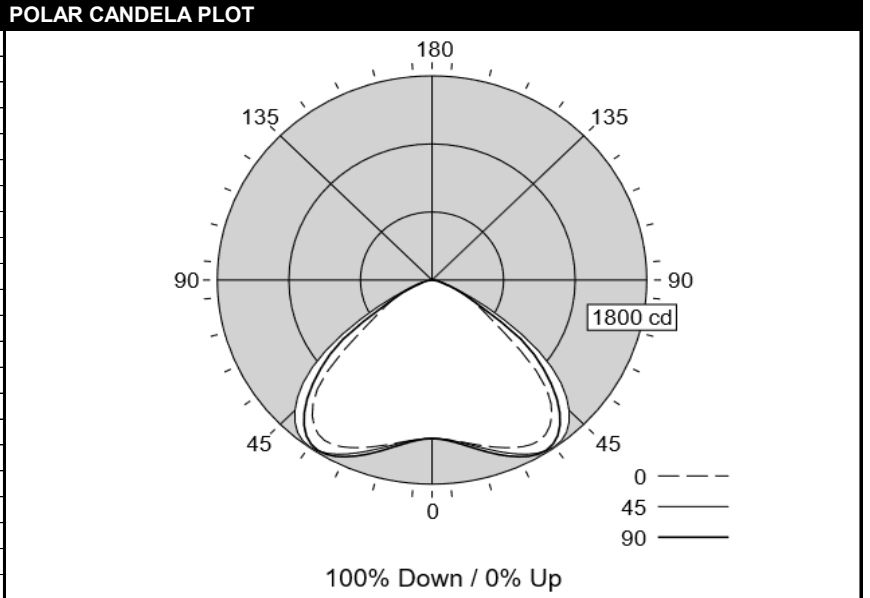


by @ignify

**TEST DATE:** 17 Oct 2023 **CATALOG NO:** BB22D1STL93550Y1DE

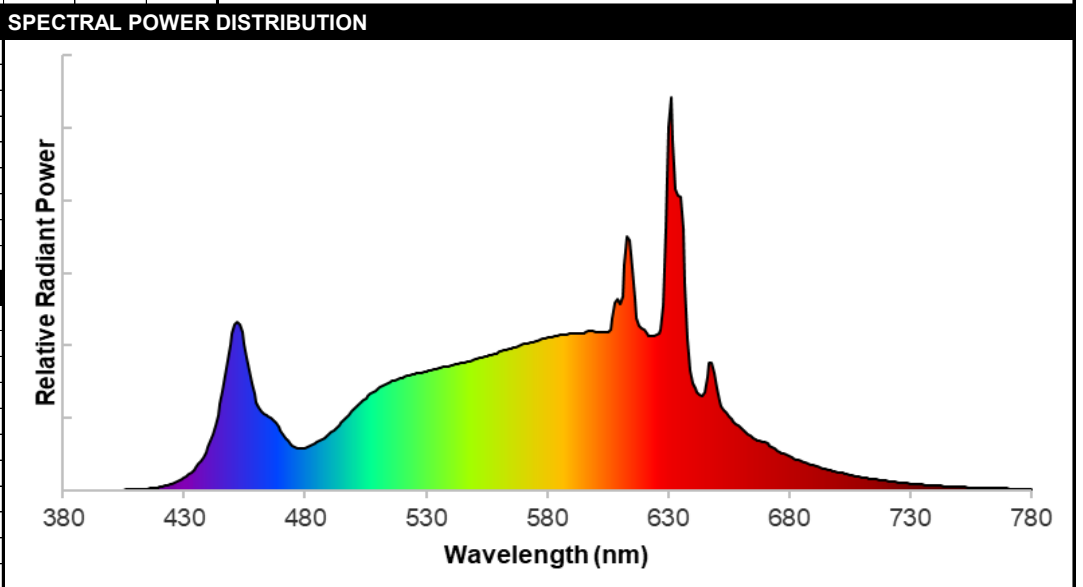
<b>Lamp Type:</b>	LED	<b>Description:</b>	5000LM BLOOMBOX 935
<b>No. of Lamps:</b>	1		
<b>Rated Lamp Lumens:</b>	-1	<b>Flux (lm), Efficiency (%):</b>	4869 lm 100%
<b>Input Watts:</b>	120 VAC 29.5	<b>Up/Dn Ratio, Efficacy (lm/W):</b>	100% Down / 0% Up 165.1
<b>CIE-IES Classification:</b>	Direct	<b>Report:</b>	LNG12226

CANDELA DISTRIBUTION						
	Flux					
	0	22.5	45	67.5	90	Lumens
0	1398	1398	1398	1398	1398	
5	1413	1411	1412	1416	1418	136
15	1506	1511	1525	1543	1551	436
25	1630	1651	1693	1718	1719	780
35	1661	1718	1793	1791	1767	1092
45	1358	1489	1626	1554	1480	1158
55	611	739	1091	1029	911	807
65	294	336	364	332	290	337
75	94	93	91	82	77	100
85	23	22	19	16	15	23
90	0	0	0	0	0	
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	0



CHARACTERISTICS				COEFFICIENTS OF UTILIZATION (%)												
RP1	None			Pc---	80				70			50			0	
Direct: Peak Candela & Angle (0°)	1677.0	32.5		Pw---	70	50	30	10	70	50	30	50	30	10	0	
Direct: Peak Candela & Angle (90°)	1781.2	32.5		RCR												
Spacing Criteria (0°, 90°, 180°)	1.68	1.75	N/A	0	119	119	119	119	116	116	116	111	111	111	100	
Beam (H, V), Field (H, V)	108.6	100.2	139.6	135.4	1	110	106	103	100	108	104	101	100	97	95	87
Indirect: Peak Candela & Angle(°)	N/A	N/A			2	102	94	88	83	99	92	87	89	84	80	75
Indirect: Zenith Candela, Peak to Zenith	N/A	N/A			3	93	84	76	70	91	82	75	79	73	68	64
Luminous Width, Length, Height (ft)	1.69	1.87	0.00		4	85	74	66	60	83	73	65	71	64	59	55
DLC, UGR (4H x 8H, 1.0H), MDER	N/A	18.6	0.557		5	79	67	58	52	77	65	57	63	56	51	48
x, y, CCT, D <sub>uv</sub>	0.4130	0.3929	3355	-0.0007	6	73	60	51	45	71	59	51	57	50	45	42
CRI (R <sub>a</sub> ), R <sub>g</sub> , G <sub>a</sub> , C <sub>g</sub>	93	62	99	93	7	67	54	46	40	65	53	45	52	45	39	37
TM-30-18 R <sub>f</sub> , R <sub>h1</sub> , R <sub>g</sub> , R <sub>mh1</sub>	91	90	100	-5%	8	62	49	41	35	61	48	41	47	40	35	33
120V: P(W), I(A), THD(%), PF	29.5	0.247	5.9	0.997	9	58	45	37	31	57	44	37	43	36	31	29
277V: P(W), I(A), THD(%), PF	29.2	0.107	8.8	0.984	10	54	41	33	28	53	41	33	40	33	28	26
347V: P(W), I(A), THD(%), PF	N/A	N/A	N/A	N/A	*Based on a floor reflectance of 0.2											

ZONAL LUMENS (lm)			
Zone	Lumens	%Fixture	%Lamp
0-30	1352	27.8%	27.8%
0-40	2444	50.2%	50.2%
0-60	4408	90.5%	90.5%
0-90	4869	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	4869	100.0%	100.0%

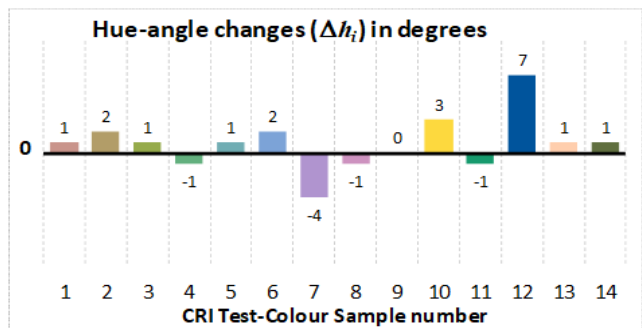
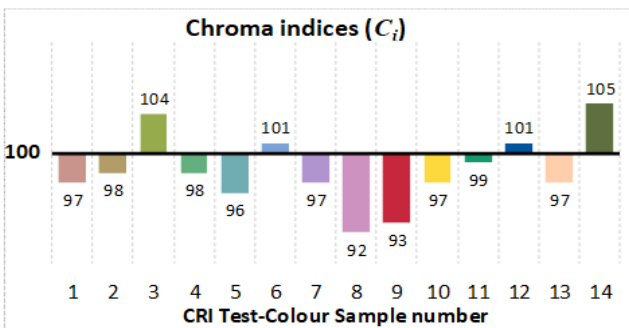
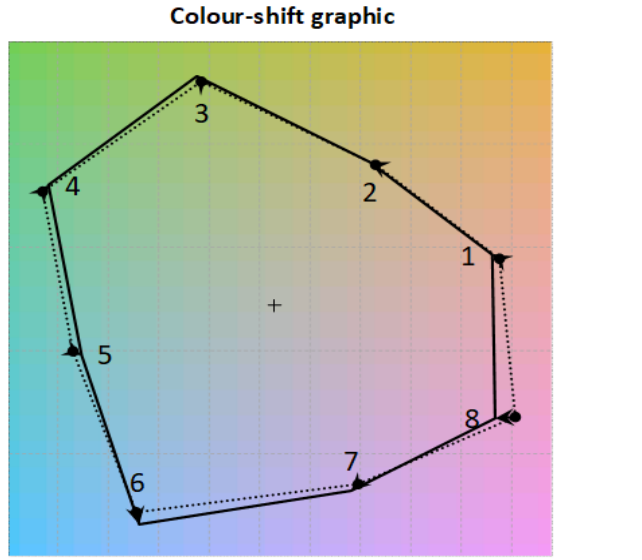
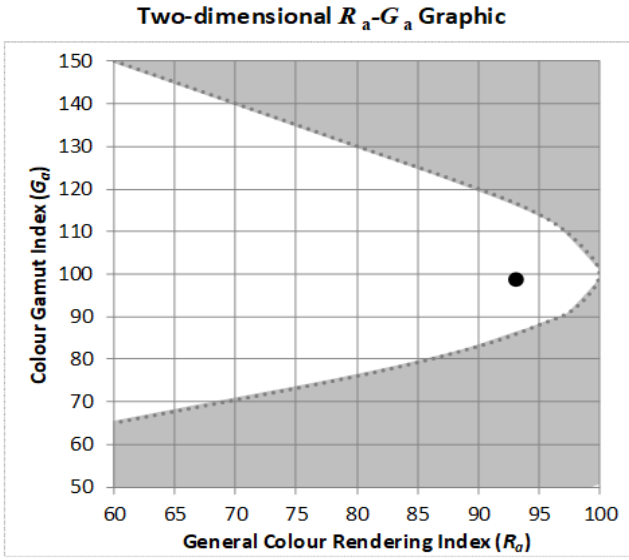
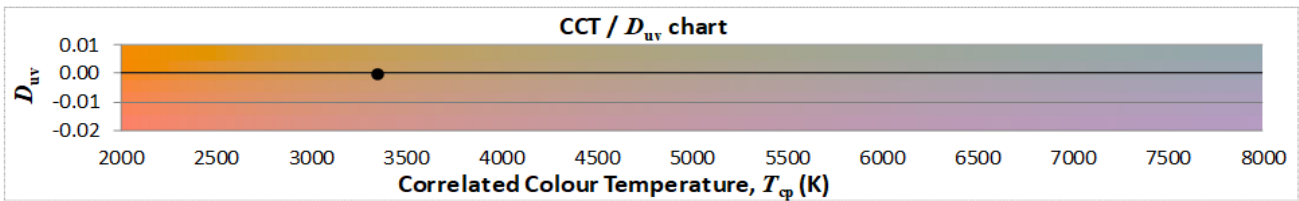
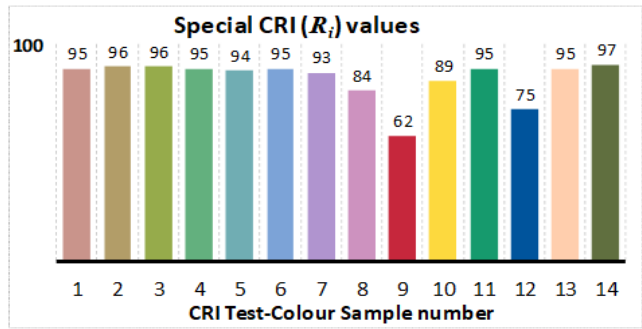
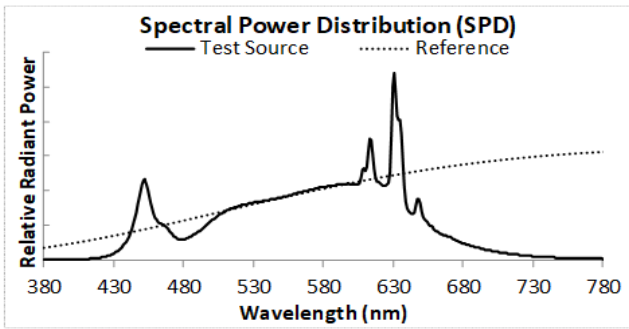


AVG LUMINANCE (cd/m <sup>2</sup> )			
	0	45	90
0	4759	4759	4759
5	4829	4826	4847
15	5309	5374	5465
25	6123	6358	6457
35	6904	7453	7346
45	6541	7827	7127
55	3625	6473	5406
65	2369	2936	2335
75	1231	1202	1016
85	902	746	594

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

<b>Test Number:</b> F44619	<b>Manufacturer:</b> Ledalite by Signify
<b>Date:</b> 29 Sep 2023	<b>Model:</b> BloomBox

<b>Correlated Colour Temperature (<math>T_{cp}</math>) in K</b>	3355	<b>CIE1931 chromaticity coordinate, x</b>	0.4130
<b>Distance to Blackbody Locus (<math>D_{uv}</math>)</b>	-0.0007	<b>CIE1931 chromaticity coordinate, y</b>	0.3929
<b>General Colour Rendering Index (<math>R_a</math>)</b>	93	<b>CIE1976 chromaticity coordinate, <math>u'</math></b>	0.2398
<b>Red Rendering Index (<math>R_9</math>)</b>	62	<b>CIE1976 chromaticity coordinate, <math>v'</math></b>	0.5133
<b>Colour Gamut Index (<math>G_a</math>)</b>	99		
<b>Red Chroma Index (<math>C_9</math>)</b>	93		



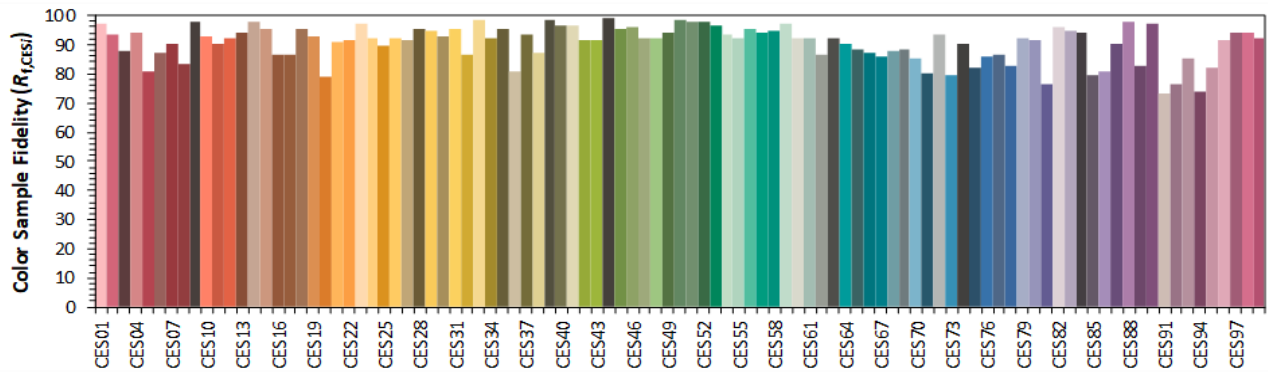
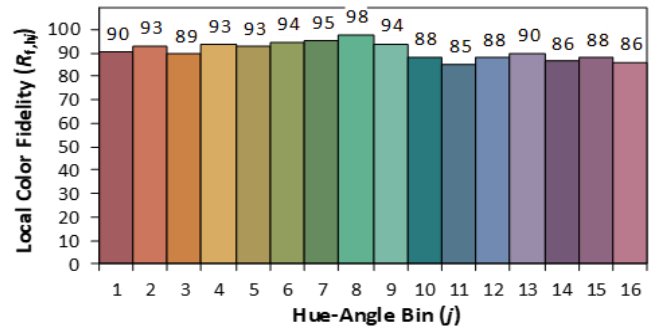
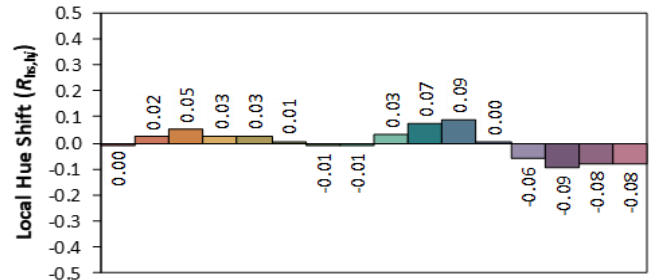
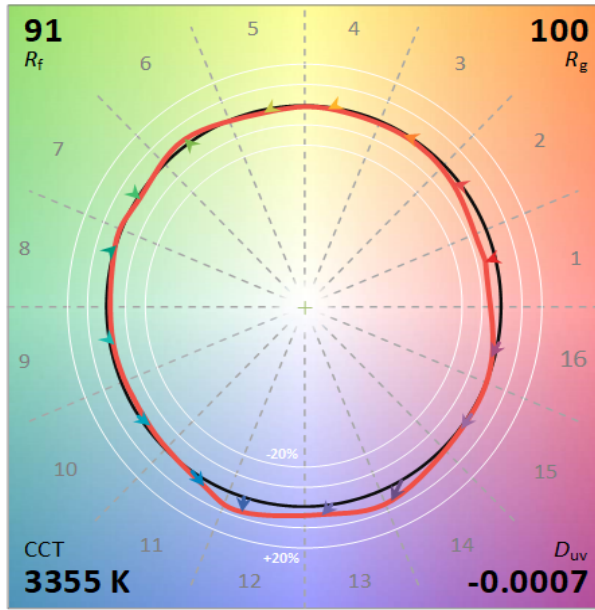
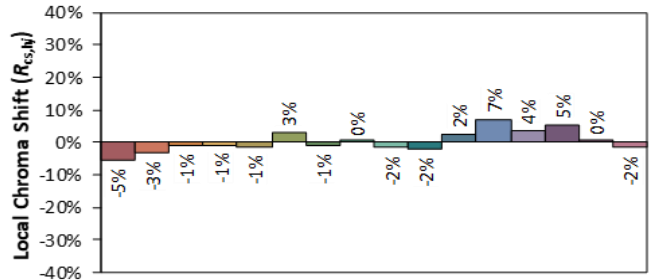
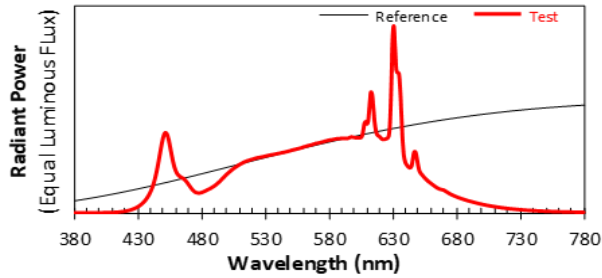
# ANSI/IES TM-30-18 Color Rendition Report

Source: F44619

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 0.4130

y 0.3929

u' 0.2398

v' 0.5133

### 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	0.00020	425	0.00200	470	0.01810	515	0.03250	560	0.04160	605	0.04750	650	0.03050	695	0.00650	740	0.00150
381	0.00020	426	0.00230	471	0.01690	516	0.03290	561	0.04180	606	0.04830	651	0.02700	696	0.00630	741	0.00150
382	0.00020	427	0.00260	472	0.01580	517	0.03310	562	0.04200	607	0.05180	652	0.02530	697	0.00610	742	0.00140
383	0.00020	428	0.00300	473	0.01480	518	0.03340	563	0.04230	608	0.05650	653	0.02430	698	0.00590	743	0.00140
384	0.00020	429	0.00340	474	0.01400	519	0.03370	564	0.04250	609	0.05760	654	0.02330	699	0.00570	744	0.00140
385	0.00020	430	0.00380	475	0.01330	520	0.03390	565	0.04270	610	0.05610	655	0.02240	700	0.00560	745	0.00130
386	0.00020	431	0.00430	476	0.01290	521	0.03410	566	0.04290	611	0.05820	656	0.02160	701	0.00540	746	0.00130
387	0.00020	432	0.00490	477	0.01270	522	0.03440	567	0.04310	612	0.06780	657	0.02080	702	0.00520	747	0.00120
388	0.00020	433	0.00550	478	0.01260	523	0.03460	568	0.04340	613	0.07620	658	0.02000	703	0.00500	748	0.00120
389	0.00020	434	0.00620	479	0.01270	524	0.03480	569	0.04360	614	0.07500	659	0.01940	704	0.00490	749	0.00120
390	0.00020	435	0.00700	480	0.01280	525	0.03500	570	0.04390	615	0.06670	660	0.01880	705	0.00470	750	0.00110
391	0.00020	436	0.00790	481	0.01310	526	0.03510	571	0.04400	616	0.05750	661	0.01820	706	0.00460	751	0.00110
392	0.00020	437	0.00900	482	0.01350	527	0.03530	572	0.04420	617	0.05180	662	0.01760	707	0.00440	752	0.00110
393	0.00010	438	0.01010	483	0.01390	528	0.03540	573	0.04430	618	0.04940	663	0.01700	708	0.00430	753	0.00100
394	0.00020	439	0.01140	484	0.01420	529	0.03560	574	0.04460	619	0.04870	664	0.01640	709	0.00420	754	0.00100
395	0.00020	440	0.01300	485	0.01470	530	0.03580	575	0.04480	620	0.04810	665	0.01590	710	0.00400	755	0.00100
396	0.00020	441	0.01480	486	0.01500	531	0.03600	576	0.04500	621	0.04720	666	0.01550	711	0.00390	756	0.00090
397	0.00020	442	0.01690	487	0.01540	532	0.03620	577	0.04530	622	0.04650	667	0.01510	712	0.00380	757	0.00090
398	0.00020	443	0.01950	488	0.01590	533	0.03640	578	0.04550	623	0.04630	668	0.01490	713	0.00370	758	0.00090
399	0.00020	444	0.02250	489	0.01640	534	0.03650	579	0.04570	624	0.04650	669	0.01470	714	0.00360	759	0.00090
400	0.00020	445	0.02600	490	0.01690	535	0.03670	580	0.04590	625	0.04680	670	0.01450	715	0.00340	760	0.00080
401	0.00020	446	0.03000	491	0.01750	536	0.03680	581	0.04610	626	0.04710	671	0.01410	716	0.00330	761	0.00080
402	0.00020	447	0.03440	492	0.01810	537	0.03700	582	0.04610	627	0.04830	672	0.01360	717	0.00320	762	0.00080
403	0.00020	448	0.03910	493	0.01880	538	0.03710	583	0.04630	628	0.05540	673	0.01310	718	0.00310	763	0.00080
404	0.00020	449	0.04350	494	0.01950	539	0.03730	584	0.04650	629	0.07870	674	0.01260	719	0.00300	764	0.00070
405	0.00020	450	0.04720	495	0.02030	540	0.03750	585	0.04660	630	0.10900	675	0.01210	720	0.00290	765	0.00070
406	0.00020	451	0.04980	496	0.02120	541	0.03760	586	0.04680	631	0.11800	676	0.01170	721	0.00280	766	0.00070
407	0.00030	452	0.05070	497	0.02200	542	0.03780	587	0.04690	632	0.10500	677	0.01130	722	0.00270	767	0.00070
408	0.00030	453	0.05000	498	0.02280	543	0.03800	588	0.04690	633	0.09050	678	0.01100	723	0.00270	768	0.00070
409	0.00030	454	0.04760	499	0.02360	544	0.03820	589	0.04700	634	0.08840	679	0.01060	724	0.00260	769	0.00060
410	0.00030	455	0.04410	500	0.02440	545	0.03830	590	0.04700	635	0.08810	680	0.01030	725	0.00250	770	0.00060
411	0.00040	456	0.04000	501	0.02510	546	0.03850	591	0.04710	636	0.07850	681	0.01000	726	0.00240	771	0.00060
412	0.00040	457	0.03590	502	0.02580	547	0.03870	592	0.04700	637	0.06190	682	0.00970	727	0.00230	772	0.00060
413	0.00050	458	0.03210	503	0.02650	548	0.03890	593	0.04700	638	0.04550	683	0.00940	728	0.00230	773	0.00060
414	0.00050	459	0.02900	504	0.02720	549	0.03910	594	0.04700	639	0.03600	684	0.00910	729	0.00220	774	0.00050
415	0.00060	460	0.02660	505	0.02780	550	0.03930	595	0.04710	640	0.03220	685	0.00880	730	0.00210	775	0.00050
416	0.00070	461	0.02500	506	0.02840	551	0.03960	596	0.04740	641	0.03050	686	0.00860	731	0.00210	776	0.00050
417	0.00070	462	0.02390	507	0.02900	552	0.03980	597	0.04780	642	0.02950	687	0.00830	732	0.00200	777	0.00050
418	0.00080	463	0.02320	508	0.02950	553	0.04000	598	0.04800	643	0.02880	688	0.00810	733	0.00190	778	0.00050
419	0.00100	464	0.02270	509	0.03000	554	0.04010	599	0.04780	644	0.02850	689	0.00780	734	0.00190	779	0.00050
420	0.00110	465	0.02220	510	0.03050	555	0.04040	600	0.04770	645	0.02970	690	0.00760	735	0.00180	780	0.00050
421	0.00120	466	0.02170	511	0.03100	556	0.04060	601	0.04750	646	0.03410	691	0.00740	736	0.00170		
422	0.00140	467	0.02100	512	0.03140	557	0.04080	602	0.04750	647	0.03850	692	0.00720	737	0.00170		
423	0.00160	468	0.02020	513	0.03190	558	0.04100	603	0.04750	648	0.03850	693	0.00690	738	0.00160		
424	0.00180	469	0.01920	514	0.03220	559	0.04120	604	0.04750	649	0.03520	694	0.00670	739	0.00160		

### 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	15.6	17.2	16.0	17.5	17.8	17.9	19.5	18.3	19.8	20.1
	3H	16.2	17.5	16.6	17.9	18.2	18.3	19.6	18.6	19.9	20.3
	4H	16.3	17.6	16.7	17.9	18.3	18.3	19.6	18.7	19.9	20.3
	6H	16.4	17.6	16.8	18.0	18.3	18.3	19.4	18.7	19.8	20.2
	8H	16.4	17.6	16.8	17.9	18.3	18.2	19.4	18.7	19.8	20.2
12H	16.4	17.5	16.9	17.9	18.3	18.2	19.3	18.7	19.7	20.1	
4H	2H	16.1	17.4	16.5	17.7	18.1	18.1	19.4	18.5	19.8	20.1
	3H	16.7	17.8	17.1	18.2	18.6	18.5	19.6	18.9	20.0	20.4
	4H	16.9	17.8	17.3	18.3	18.7	18.6	19.5	19.0	19.9	20.3
	6H	17.1	17.9	17.5	18.3	18.8	18.6	19.4	19.0	19.8	20.3
	8H	17.1	17.9	17.6	18.3	18.8	18.6	19.3	19.0	19.8	20.2
12H	17.1	17.8	17.6	18.3	18.8	18.5	19.2	19.0	19.7	20.2	
8H	4H	17.0	17.7	17.4	18.1	18.6	18.5	19.3	19.0	19.7	20.2
	6H	17.1	17.8	17.6	18.3	18.7	18.6	19.2	19.1	19.7	20.2
	8H	17.2	17.8	17.7	18.3	18.8	18.5	19.1	19.1	19.6	20.1
	12H	17.3	17.8	17.8	18.3	18.8	18.5	19.1	19.1	19.5	20.1
12H	4H	16.9	17.6	17.4	18.1	18.5	18.5	19.2	19.0	19.7	20.1
	6H	17.1	17.7	17.6	18.2	18.7	18.5	19.1	19.1	19.6	20.1
	8H	17.2	17.7	17.7	18.2	18.8	18.5	19.1	19.0	19.5	20.1

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.