LEDALITE - TRUGROOVE PERIMETER

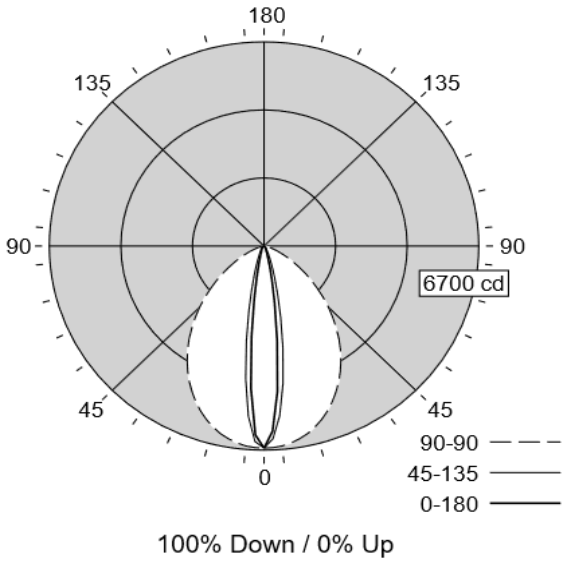
LEDALITE by signify

TEST DATE:	04 Jun 2021	**CATALOG NO:**	**4909L94030Pxx04**
Lamp Type:	LED	**Description:**	3000LM GRAZE 940
No. of Lamps:	88		
Rated Lamp Lumens:	-1	**Flux (lm), Efficiency (%):**	3051 lm 100%
Input Watts:	277 VAC 27.4	**Up/Dn Ratio, Efficacy (lm/W):**	100% Down / 0% Up 111.4
CIE-IES Classification:	Direct	**Report:**	LNG02506

CANDELA DISTRIBUTION

	0	45	90	135	180	Flux Lumens
0	6631	6631	6631	6631	6631	
5	4797	5599	6586	5608	4687	474
15	668	1639	6148	1497	645	688
25	142	384	5300	405	205	591
35	76	142	4158	187	112	494
45	41	79	2843	106	63	378
55	27	49	1591	63	34	244
65	20	36	654	38	18	125
75	11	20	184	20	9	48
85	2	5	23	5	2	9
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	

POLAR CANDELA PLOT



CHARACTERISTICS

RP1				None
Direct: Peak Candela & Angle (0°)			6630.7	0.0
Direct: Peak Candela & Angle (180°)			6630.7	0.0
Spacing Criteria (0°, 90°, 180°)		0.25	1.09	0.24
Beam (H, V), Field (H, V)	82.9	14.3	129.8	29.9
Indirect: Peak Candela & Angle(°)			N/A	N/A
Indirect: Zenith Candela, Peak to Zenith			N/A	N/A
Luminous Width, Length, Height (ft)		4.00	0.25	0.00
DLC, UGR (4H x 8H, 1.0H), MDER		N/A	21.4	0.649
x, y, CCT, D_{uv}	0.3824	0.3798	3969	0.0008
CRI (R_a), R_9, G_a, C_9	93	64	99	93
TM-30-18 R_f, $R_{f,h1}$, R_g, $R_{cs,h1}$	91	91	100	-5%
120V: P(W), I(A), THD(%), PF	27.3	0.229	9.8	0.993
277V: P(W), I(A), THD(%), PF	27.4	0.104	15.1	0.951
347V: P(W), I(A), THD(%), PF	26.6	0.079	8.4	0.965

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	112	109	106	104	110	107	104	103	101	99	91
2	106	100	95	91	103	98	94	95	91	88	83
3	99	92	86	81	97	90	85	88	83	79	75
4	94	85	79	74	92	84	78	81	76	72	69
5	88	79	72	67	87	78	72	76	71	66	64
6	84	74	67	62	82	73	66	71	66	61	59
7	79	69	62	58	78	68	62	67	61	57	55
8	75	65	58	54	74	64	58	63	58	54	52
9	72	61	55	51	71	61	55	60	54	50	49
10	68	58	52	48	67	58	52	57	51	48	46

*Based on a floor reflectance of 0.2

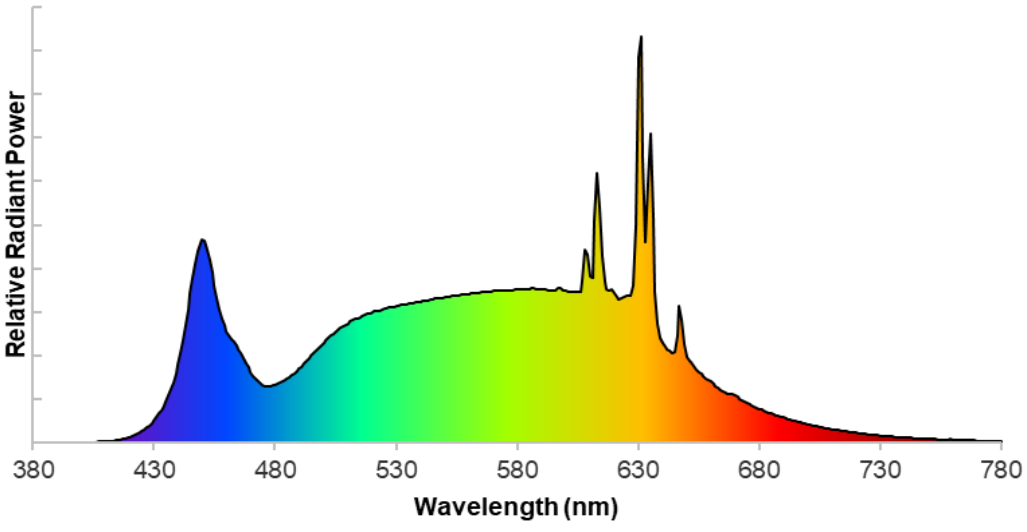
ZONAL LUMENS (lm)

Zone	Lumens	%Fixture	%Lamp
0-30	1753	57.5%	57.5%
0-40	2247	73.7%	73.7%
0-60	2869	94.0%	94.0%
0-90	3051	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	3051	100.0%	100.0%

AVG LUMINANCE (cd/m²)

	0	90	180
0	71346	71346	71346
5	51809	71134	50619
15	7437	68481	7186
25	1681	62925	2428
35	1004	54620	1476
45	616	43266	957
55	507	29854	632
65	514	16654	458
75	466	7662	374
85	272	2778	272

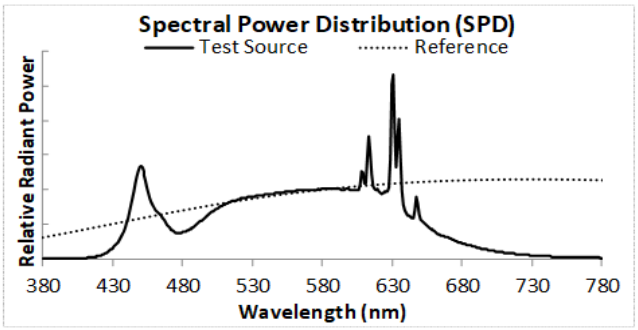
SPECTRAL POWER DISTRIBUTION

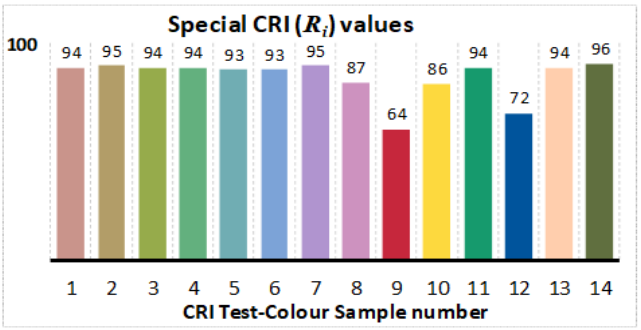


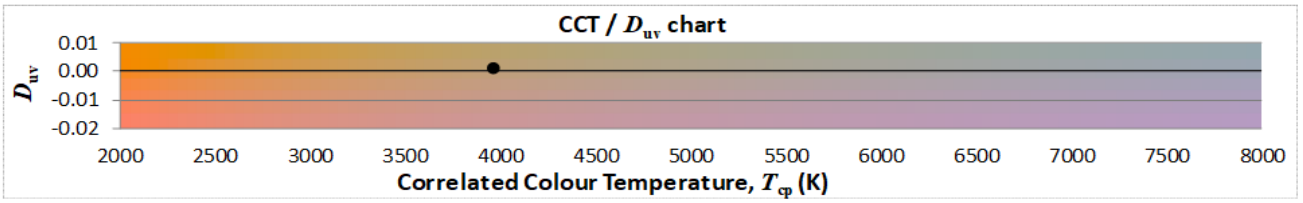
Output of GLA Calculation Tool for CIE 13.3 CRI and Associated CRI-based Colour Rendition Properties

Test Number:	T20201108	**Manufacturer:**	Ledalite by Signify
Date:	27 Aug 2020	**Model:**	TruGroove Perimeter

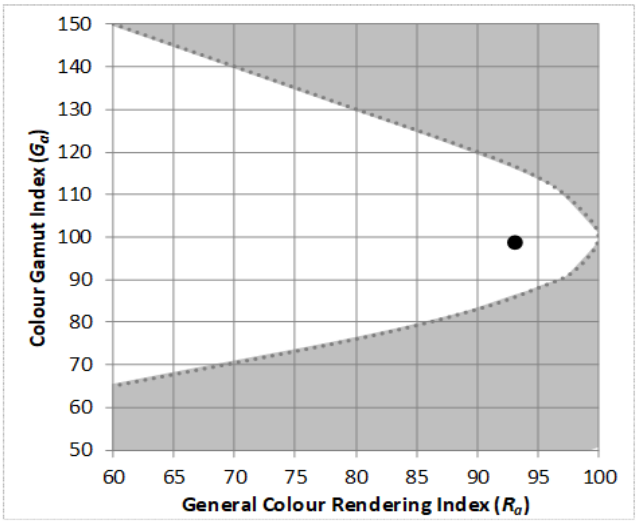
Correlated Colour Temperature (T_{cp}) in K	3969	**CIE1931 chromaticity coordinate, x**	0.3824
Distance to Blackbody Locus (D_{uv})	0.0008	**CIE1931 chromaticity coordinate, y**	0.3798
General Colour Rendering Index (R_a)	93	**CIE1976 chromaticity coordinate, u'**	0.2252
Red Rendering Index (R_9)	64	**CIE1976 chromaticity coordinate, v'**	0.5032
Colour Gamut Index (G_a)	99		
Red Chroma Index (C_9)	93		



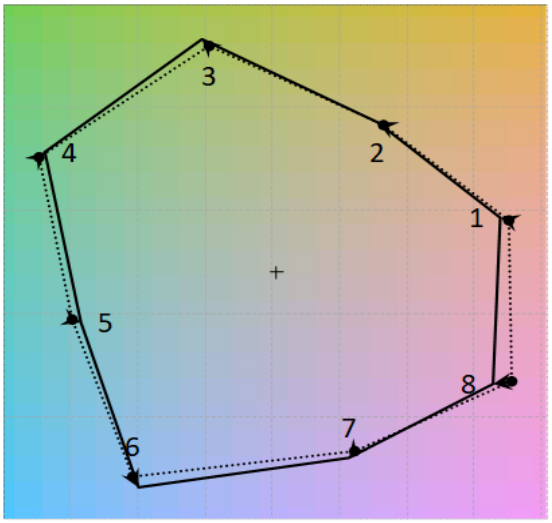


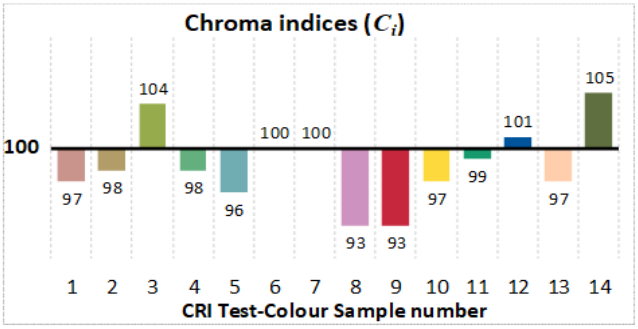


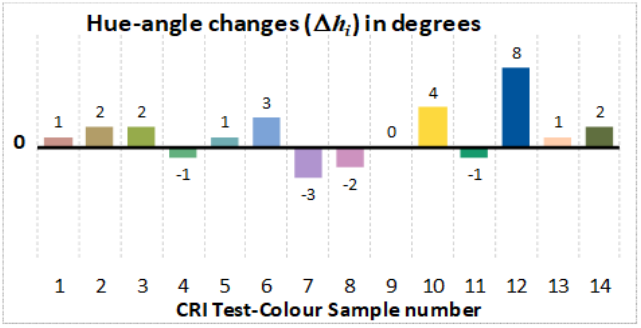
Two-dimensional R_a-G_a Graphic



Colour-shift graphic

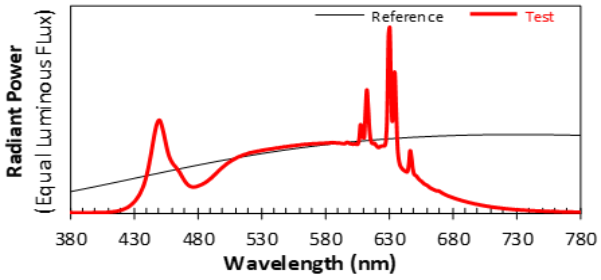


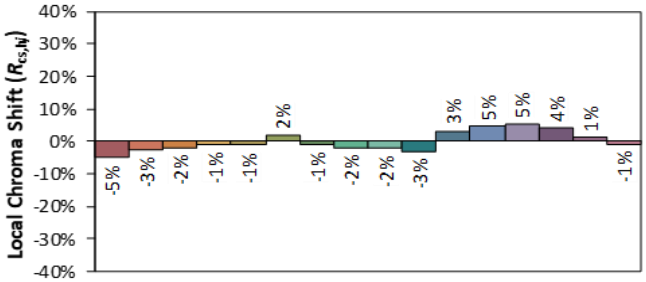


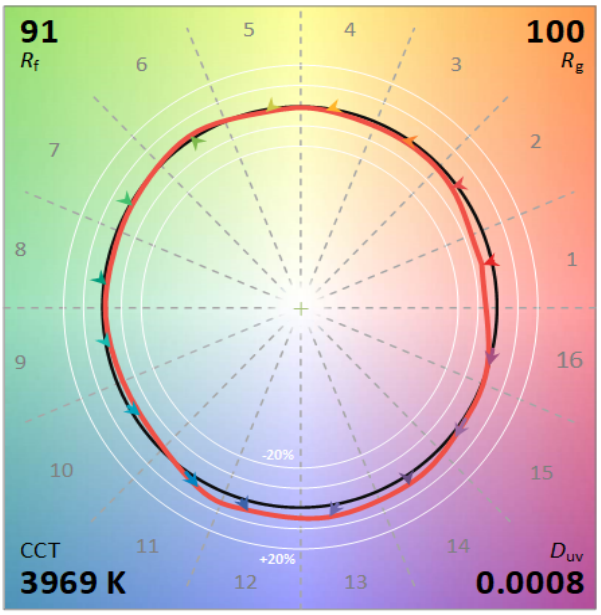


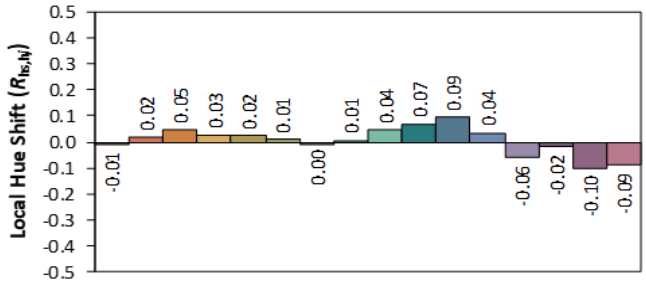
ANSI/IES TM-30-18 Color Rendition Report

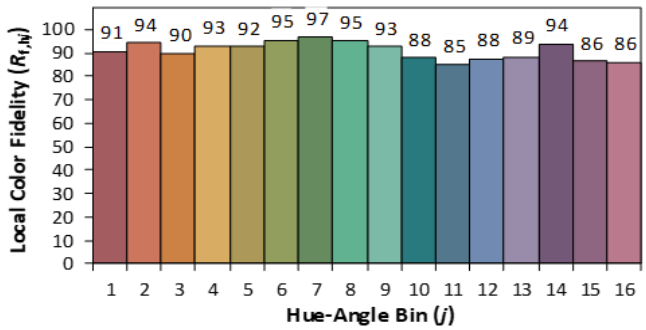
Source:	T20201108	**Manufacturer:**	Ledalite by Signify
Date:	27 Aug 2020	**Model:**	TruGroove Perimeter

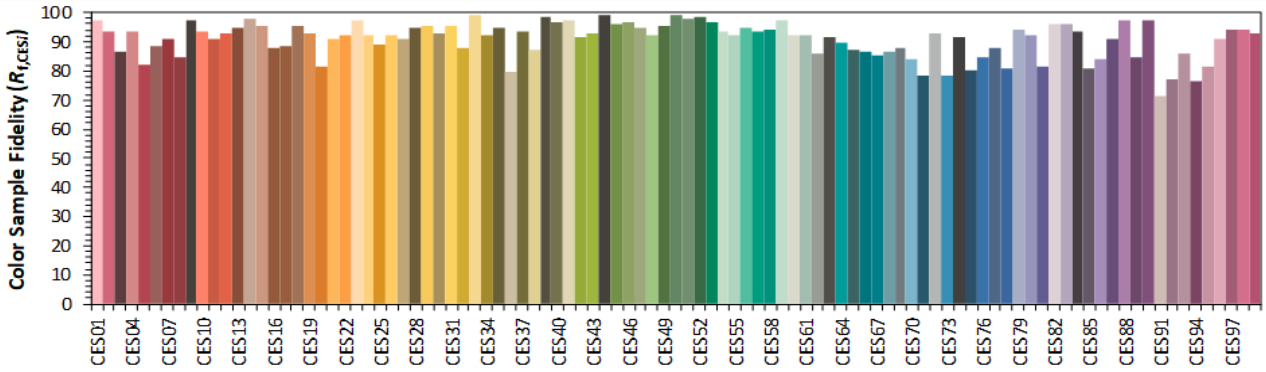












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	**0.3824**
y	**0.3798**
u'	**0.2252**
v'	**0.5032**

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	0.00020	425	0.00530	470	0.03250	515	0.05770	560	0.06820	605	0.06890	650	0.03930	695	0.00990	740	0.00240
381	0.00020	426	0.00600	471	0.03070	516	0.05820	561	0.06850	606	0.06900	651	0.03780	696	0.00960	741	0.00230
382	0.00020	427	0.00690	472	0.02910	517	0.05860	562	0.06870	607	0.07430	652	0.03700	697	0.00920	742	0.00220
383	0.00010	428	0.00790	473	0.02790	518	0.05900	563	0.06870	608	0.08870	653	0.03530	698	0.00900	743	0.00210
384	0.00010	429	0.00900	474	0.02700	519	0.05940	564	0.06890	609	0.08630	654	0.03370	699	0.00870	744	0.00210
385	0.00010	430	0.01020	475	0.02640	520	0.05990	565	0.06900	610	0.07610	655	0.03250	700	0.00850	745	0.00200
386	0.00010	431	0.01160	476	0.02610	521	0.06030	566	0.06910	611	0.07560	656	0.03170	701	0.00820	746	0.00190
387	0.00010	432	0.01330	477	0.02600	522	0.06070	567	0.06910	612	0.10200	657	0.03040	702	0.00790	747	0.00190
388	0.00020	433	0.01490	478	0.02610	523	0.06070	568	0.06940	613	0.12380	658	0.02920	703	0.00770	748	0.00190
389	0.00010	434	0.01690	479	0.02620	524	0.06120	569	0.06940	614	0.10790	659	0.02850	704	0.00740	749	0.00180
390	0.00010	435	0.01900	480	0.02660	525	0.06140	570	0.06960	615	0.08550	660	0.02800	705	0.00720	750	0.00170
391	0.00010	436	0.02160	481	0.02720	526	0.06180	571	0.06960	616	0.07390	661	0.02700	706	0.00700	751	0.00170
392	0.00010	437	0.02460	482	0.02760	527	0.06200	572	0.06960	617	0.07020	662	0.02590	707	0.00680	752	0.00170
393	0.00010	438	0.02780	483	0.02830	528	0.06220	573	0.06970	618	0.06970	663	0.02500	708	0.00660	753	0.00160
394	0.00010	439	0.03170	484	0.02880	529	0.06240	574	0.06970	619	0.07020	664	0.02430	709	0.00640	754	0.00150
395	0.00010	440	0.03600	485	0.02950	530	0.06270	575	0.06980	620	0.06840	665	0.02370	710	0.00610	755	0.00150
396	0.00010	441	0.04130	486	0.03020	531	0.06300	576	0.06990	621	0.06700	666	0.02310	711	0.00600	756	0.00140
397	0.00010	442	0.04700	487	0.03110	532	0.06310	577	0.07010	622	0.06570	667	0.02250	712	0.00580	757	0.00140
398	0.00020	443	0.05400	488	0.03190	533	0.06340	578	0.06990	623	0.06620	668	0.02210	713	0.00560	758	0.00130
399	0.00020	444	0.06100	489	0.03290	534	0.06360	579	0.07010	624	0.06700	669	0.02220	714	0.00540	759	0.00170
400	0.00020	445	0.06840	490	0.03410	535	0.06370	580	0.07020	625	0.06720	670	0.02170	715	0.00520	760	0.00130
401	0.00020	446	0.07550	491	0.03490	536	0.06400	581	0.07020	626	0.06740	671	0.02090	716	0.00510	761	0.00120
402	0.00020	447	0.08220	492	0.03630	537	0.06420	582	0.07030	627	0.06730	672	0.02010	717	0.00490	762	0.00120
403	0.00020	448	0.08800	493	0.03740	538	0.06430	583	0.07030	628	0.07190	673	0.01930	718	0.00480	763	0.00120
404	0.00020	449	0.09170	494	0.03870	539	0.06450	584	0.07050	629	0.09990	674	0.01870	719	0.00460	764	0.00110
405	0.00030	450	0.09340	495	0.03990	540	0.06470	585	0.07060	630	0.17700	675	0.01810	720	0.00450	765	0.00110
406	0.00030	451	0.09250	496	0.04120	541	0.06510	586	0.07080	631	0.18640	676	0.01750	721	0.00430	766	0.00100
407	0.00040	452	0.08880	497	0.04240	542	0.06520	587	0.07070	632	0.13060	677	0.01700	722	0.00420	767	0.00100
408	0.00040	453	0.08410	498	0.04370	543	0.06540	588	0.07060	633	0.09200	678	0.01640	723	0.00410	768	0.00110
409	0.00050	454	0.07820	499	0.04480	544	0.06550	589	0.07040	634	0.11900	679	0.01600	724	0.00390	769	0.00100
410	0.00060	455	0.07210	500	0.04590	545	0.06580	590	0.07030	635	0.14160	680	0.01550	725	0.00380	770	0.00090
411	0.00070	456	0.06620	501	0.04700	546	0.06600	591	0.07020	636	0.10340	681	0.01500	726	0.00370	771	0.00090
412	0.00080	457	0.06110	502	0.04810	547	0.06610	592	0.07020	637	0.06940	682	0.01460	727	0.00360	772	0.00090
413	0.00090	458	0.05690	503	0.04910	548	0.06650	593	0.07000	638	0.05440	683	0.01420	728	0.00350	773	0.00090
414	0.00110	459	0.05380	504	0.05010	549	0.06640	594	0.06980	639	0.04830	684	0.01380	729	0.00330	774	0.00090
415	0.00120	460	0.05130	505	0.05090	550	0.06660	595	0.06950	640	0.04580	685	0.01340	730	0.00320	775	0.00080
416	0.00150	461	0.04930	506	0.05170	551	0.06700	596	0.06960	641	0.04410	686	0.01300	731	0.00310	776	0.00070
417	0.00160	462	0.04780	507	0.05270	552	0.06700	597	0.07090	642	0.04290	687	0.01260	732	0.00300	777	0.00070
418	0.00200	463	0.04640	508	0.05320	553	0.06720	598	0.07100	643	0.04200	688	0.01220	733	0.00300	778	0.00070
419	0.00230	464	0.04470	509	0.05410	554	0.06740	599	0.07000	644	0.04130	689	0.01180	734	0.00290	779	0.00070
420	0.00260	465	0.04290	510	0.05460	555	0.06760	600	0.06950	645	0.04140	690	0.01150	735	0.00280	780	0.00070
421	0.00300	466	0.04120	511	0.05550	556	0.06770	601	0.06930	646	0.04920	691	0.01120	736	0.00270		
422	0.00340	467	0.03890	512	0.05610	557	0.06780	602	0.06900	647	0.06250	692	0.01080	737	0.00270		
423	0.00400	468	0.03670	513	0.05670	558	0.06810	603	0.06920	648	0.05610	693	0.01050	738	0.00250		
424	0.00460	469	0.03450	514	0.05710	559	0.06820	604	0.06930	649	0.04520	694	0.01020	739	0.00250		

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	4.0	4.0	4.0	4.0	4.0	18.4	19.6	18.8	20.0	20.3
	3H	4.0	4.0	4.0	4.1	4.4	20.6	21.7	21.0	22.0	22.4
	4H	4.0	4.3	4.0	4.6	5.0	21.1	22.2	21.5	22.5	22.9
	6H	4.0	4.6	4.1	5.0	5.4	21.4	22.4	21.8	22.7	23.1
	8H	4.0	4.7	4.2	5.1	5.5	21.5	22.4	21.9	22.8	23.2
	12H	4.0	4.7	4.3	5.1	5.5	21.5	22.3	21.9	22.7	23.1
4H	2H	4.0	4.0	4.0	4.0	4.3	18.2	19.2	18.6	19.5	19.9
	3H	4.4	5.2	4.8	5.6	6.0	20.4	21.2	20.8	21.6	22.0
	4H	4.9	5.7	5.4	6.1	6.6	21.0	21.7	21.4	22.1	22.6
	6H	5.4	6.0	5.8	6.5	6.9	21.3	22.0	21.8	22.4	22.9
	8H	5.5	6.1	6.0	6.5	7.0	21.4	22.0	21.8	22.4	22.9
	12H	5.5	6.1	6.0	6.6	7.0	21.4	21.9	21.9	22.4	22.9
8H	4H	6.2	6.8	6.7	7.2	7.7	20.8	21.4	21.3	21.9	22.4
	6H	6.6	7.1	7.1	7.6	8.1	21.2	21.7	21.7	22.2	22.6
	8H	6.8	7.2	7.3	7.7	8.2	21.2	21.7	21.8	22.2	22.7
	12H	6.8	7.2	7.4	7.7	8.3	21.3	21.7	21.8	22.2	22.8
12H	4H	6.5	7.1	7.0	7.5	8.0	20.8	21.3	21.3	21.8	22.3
	6H	7.0	7.5	7.5	7.9	8.5	21.1	21.6	21.6	22.0	22.6
	8H	7.2	7.6	7.7	8.1	8.6	21.2	21.6	21.7	22.1	22.7

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.