

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL88542-GONIOPHOTOMETRY

PAGE: 1 OF 8

ISSUE DATE: 10/26/16

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-WG-6W-2D-4ft-V-8-35

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING, EXTRUDED WHITE PAINTED METAL INTERIOR HOUSING/CIRCUIT BOARD MOUNT, 4 WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, FROSTED HOLOGRAPHIC PLASTIC LENS, FORMED MULTI-FACETED SEMI-SPECULAR METAL FORWARD REFLECTOR, EXTRUDED WHITE PLASTIC LOWER CUTOFF SHIELD. LENS FROSTED BOTH SIDES. VERTICAL PHOTOMETRIC CENTER LOCATED AT BACK BOTTOM EDGE OF HOUSING (CEILING HEIGHT).

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 37.5 WATTS, 0.141 AMPS

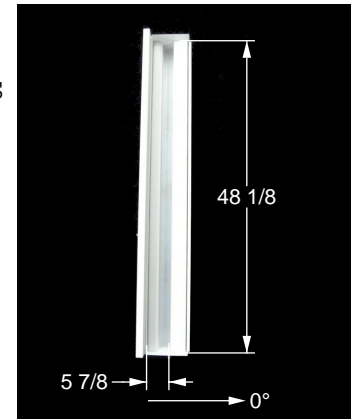
MOUNTING: RECESSED

LED DRIVER: OSRAM OTi 50/120-277/1A4 DIM L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	3274	3274	3274	3274	3274	274
5	2070	2441	3253	3674	3632	527
15	787	1093	3060	2408	1367	491
25	456	628	2670	759	197	401
35	335	420	2134	129	25	312
45	294	312	1542	26	2	231
55	265	253	984	4	0	179
65	341	241	534	1	0	121
75	238	273	217	0	0	24
85	33	30	35	0	0	11
90	31	27	0	0	0	7
95	29	24	0	0	0	3
105	23	15	0	0	0	0
115	13	3	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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1291	50.1
0- 40	1692	65.6
0- 60	2234	86.7
0- 90	2558	99.2
90-120	20	0.8
90-130	21	0.8
90-150	21	0.8
90-180	21	0.8
0-180	2578	100.0

EFFICACY = 68.7 lm/W

EFFICACY (277V) = 68.7 lm/W

EFFICACY (120V) = 69.9 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL88542-THD.

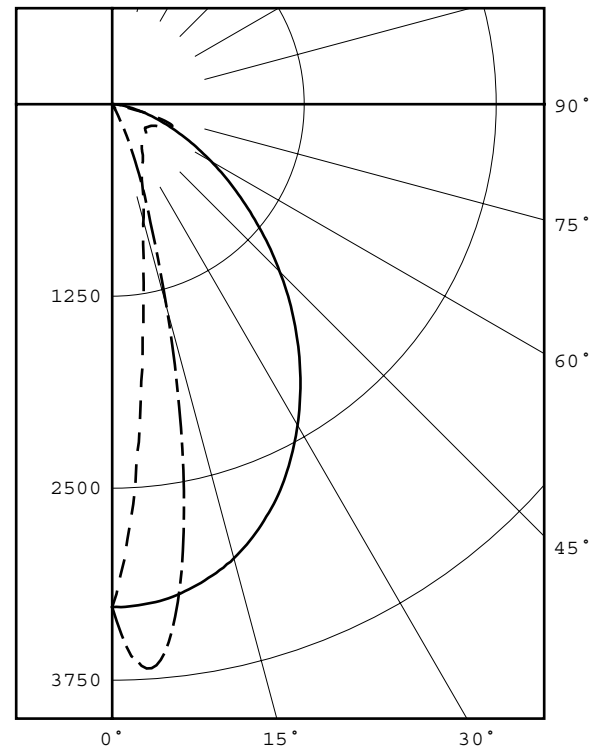
CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 0.24 1.12 0.48

BEAM ANGLE (50%) : 18.9 X 79.5 DEGREES

FIELD ANGLE (10%) : 54.3 X 139.2 DEGREES



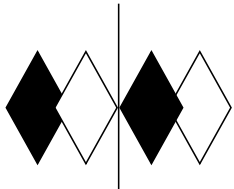
LEGEND:

0-deg -----
90-deg =====
180-deg -----

Checked J. VILLANUEVA

Approved R. BEATTIE
Lighting Engineer

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PAGE: 2 OF 8

CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	95.0	105.0	115.0
0.0	3274	3274	3274	3274	3274	3274	3274	3274	3274	3274	3274	3274	3274	3274
0.5	3190	3201	3181	3187	3194	3206	3219	3234	3249	3265	3273	3283	3299	3314
1.0	3069	3100	3082	3095	3111	3135	3161	3191	3223	3257	3274	3290	3323	3352
1.5	2972	2989	2976	2996	3023	3060	3116	3148	3197	3247	3273	3297	3346	3389
2.0	2835	2871	2864	2891	2931	2983	3054	3104	3170	3237	3271	3304	3368	3424
2.5	2724	2745	2743	2781	2830	2899	2991	3057	3140	3226	3269	3310	3389	3457
3.0	2607	2613	2619	2666	2727	2813	2923	3011	3112	3216	3267	3316	3409	3489
3.5	2482	2477	2489	2545	2619	2723	2853	2960	3083	3203	3263	3320	3427	3518
4.0	2298	2340	2359	2423	2510	2631	2782	2911	3053	3193	3260	3326	3446	3544
4.5	2207	2202	2229	2302	2397	2536	2708	2859	3021	3180	3257	3330	3462	3567
5.0	2070	2071	2104	2181	2286	2441	2630	2806	2991	3168	3253	3334	3478	3588
5.5	1936	1947	1984	2065	2175	2345	2552	2751	2958	3158	3249	3337	3492	3603
6.0	1813	1831	1870	1954	2069	2251	2475	2697	2925	3144	3244	3339	3505	3616
6.5	1733	1721	1762	1848	1968	2157	2397	2641	2892	3129	3237	3341	3515	3621
7.0	1624	1621	1665	1751	1871	2067	2320	2585	2857	3115	3231	3342	3525	3625
7.5	1520	1529	1574	1659	1800	1979	2242	2528	2822	3099	3223	3342	3531	3623
8.0	1457	1444	1489	1573	1713	1895	2166	2469	2786	3083	3215	3341	3535	3618
8.5	1372	1366	1411	1493	1632	1815	2091	2413	2751	3066	3206	3339	3537	3606
9.0	1293	1295	1340	1420	1555	1739	2019	2355	2714	3049	3198	3336	3537	3593
9.5	1245	1229	1273	1353	1482	1666	1949	2298	2677	3032	3188	3333	3534	3575
10.0	1177	1168	1214	1290	1417	1597	1880	2242	2639	3014	3179	3329	3528	3552
11.0	1061	1075	1105	1178	1297	1471	1753	2132	2564	2978	3159	3318	3512	3498
11.5	1026	1027	1057	1128	1243	1413	1692	2077	2525	2958	3147	3312	3499	3463
12.0	978	984	1014	1082	1193	1359	1636	2025	2489	2939	3137	3305	3485	3427
12.5	933	943	973	1039	1146	1308	1581	1973	2450	2919	3127	3298	3468	3387
13.0	893	907	936	998	1101	1260	1528	1923	2412	2900	3113	3289	3448	3345
13.5	870	873	901	962	1060	1214	1478	1873	2374	2880	3103	3279	3426	3302
14.0	837	843	870	929	1022	1173	1430	1825	2337	2861	3087	3269	3403	3257
14.5	806	814	839	896	985	1131	1384	1776	2299	2840	3077	3257	3377	3208
15.0	787	789	812	866	951	1093	1340	1729	2261	2818	3060	3244	3350	3158
16.0	743	742	763	813	890	1022	1257	1639	2187	2775	3029	3218	3294	3056
17.0	702	703	721	766	836	959	1182	1545	2113	2736	2997	3188	3232	2946
18.0	660	668	682	725	787	901	1112	1465	2042	2693	2962	3154	3165	2831
19.0	617	628	649	687	745	850	1057	1391	1975	2651	2925	3119	3094	2712
20.0	579	586	609	647	707	804	998	1321	1909	2604	2886	3081	3022	2589
22.5	500	504	518	559	622	708	872	1176	1749	2484	2786	2967	2834	2269
25.0	456	458	468	492	545	628	769	1041	1607	2360	2670	2839	2619	1961
27.5	429	431	434	450	487	559	686	930	1469	2234	2545	2699	2391	1640
30.0	401	405	410	421	445	501	612	832	1341	2102	2413	2548	2139	1343
32.5	363	367	378	393	414	458	550	748	1223	1971	2276	2381	1907	1084
35.0	335	336	344	361	386	420	498	676	1114	1837	2134	2214	1665	867
37.5	322	324	326	336	357	391	454	618	1013	1705	1990	2044	1444	693
40.0	314	315	315	319	331	362	416	559	919	1572	1843	1869	1227	551
42.5	307	307	306	306	313	334	384	508	832	1444	1696	1694	1031	416
45.0	294	294	296	297	298	312	355	462	756	1317	1542	1520	857	293
47.5	284	284	283	285	287	294	327	421	681	1193	1398	1359	705	195
50.0	288	289	285	274	276	279	301	384	613	1067	1251	1196	576	108
52.5	271	271	273	279	264	267	280	350	549	958	1114	1041	466	57
55.0	265	264	262	263	267	253	261	318	490	846	984	896	356	38
57.5	275	274	268	258	254	247	245	286	433	741	861	762	261	28
60.0	285	284	278	267	250	245	231	258	381	643	743	640	170	21
62.5	304	302	290	276	259	236	222	233	332	551	634	529	96	16
65.0	341	338	319	293	267	241	220	211	287	466	534	429	50	6
67.5	387	384	360	325	283	247	212	192	243	388	441	341	30	4
70.0	416	415	394	360	310	257	215	181	204	318	358	263	20	3
72.5	358	359	361	356	328	274	216	173	170	254	284	197	12	2
75.0	238	239	249	267	286	273	220	168	141	197	217	138	5	1
77.5	48	51	81	135	181	211	211	161	119	146	159	84	3	0
80.0	35	35	35	35	40	107	150	149	104	103	112	46	1	0
82.5	34	34	34	34	33	31	51	101	88	68	70	20	0	0
85.0	33	33	34	33	32	30	28	33	60	41	35	7	0	0
87.5	32	32	33	32	31	29	26	23	21	19	14	2	0	0
90.0	31	31	31	31	30	27	24	21	17	9	0	0	0	0
92.5	30	30	30	30	28	26	22	18	13	4	0	0	0	0

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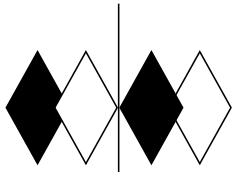
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CANDELA DISTRIBUTION														
	LATERAL ANGLE													
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	95.0	105.0	115.0
95.0	29	29	29	28	27	24	20	15	8	1	0	0	0	0
97.5	27	28	28	27	25	22	18	12	5	0	0	0	0	0
100.0	26	26	26	25	23	20	15	9	2	0	0	0	0	0
102.5	24	24	24	23	21	17	13	6	1	0	0	0	0	0
105.0	23	23	22	21	19	15	10	3	1	0	0	0	0	0
107.5	21	21	20	19	16	12	7	1	1	0	0	0	0	0
110.0	19	19	18	17	13	9	4	1	0	0	0	0	0	0
112.5	16	16	16	14	10	6	1	1	0	0	0	0	0	0
115.0	13	13	12	10	7	3	1	0	0	0	0	0	0	0
117.5	10	10	9	7	4	1	1	0	0	0	0	0	0	0
120.0	7	7	6	4	1	0	0	0	0	0	0	0	0	0
122.5	4	4	3	1	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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PAGE: 4 OF 8

CANDELA DISTRIBUTION
LATERAL ANGLE

	125.0	135.0	145.0	155.0	165.0	175.0	180.0
0.0	3274	3274	3274	3274	3274	3274	3274
0.5	3329	3341	3352	3358	3364	3370	3366
1.0	3382	3404	3426	3437	3448	3459	3453
1.5	3432	3464	3495	3511	3525	3539	3531
2.0	3479	3519	3557	3575	3591	3609	3596
2.5	3523	3556	3609	3627	3642	3662	3622
3.0	3563	3600	3652	3665	3678	3698	3661
3.5	3597	3633	3679	3686	3695	3713	3680
4.0	3625	3658	3696	3694	3696	3712	3681
4.5	3646	3671	3698	3685	3679	3690	3664
5.0	3661	3674	3692	3664	3650	3654	3632
5.5	3666	3668	3673	3629	3604	3616	3584
6.0	3668	3654	3643	3582	3547	3555	3521
6.5	3662	3630	3601	3523	3475	3480	3446
7.0	3652	3598	3549	3455	3397	3397	3362
7.5	3632	3558	3489	3378	3311	3303	3270
8.0	3609	3510	3422	3296	3216	3203	3169
8.5	3578	3457	3349	3206	3114	3094	3061
9.0	3542	3397	3270	3110	3004	2977	2944
9.5	3500	3334	3184	3007	2890	2852	2822
10.0	3455	3265	3092	2900	2769	2720	2693
11.0	3350	3115	2894	2671	2515	2451	2426
11.5	3293	3054	2788	2551	2383	2311	2287
12.0	3234	2949	2680	2430	2251	2172	2153
12.5	3172	2882	2569	2307	2116	2031	2016
13.0	3106	2767	2454	2181	1982	1892	1878
13.5	3038	2699	2340	2057	1850	1755	1744
14.0	2965	2604	2225	1932	1720	1622	1614
14.5	2891	2507	2109	1808	1594	1493	1488
15.0	2814	2408	1991	1685	1471	1371	1367
16.0	2657	2209	1762	1452	1245	1150	1148
17.0	2496	2008	1544	1240	1047	962	960
18.0	2328	1807	1342	1053	881	808	806
19.0	2160	1616	1160	895	747	685	684
20.0	1991	1432	1000	765	640	584	583
22.5	1585	1042	701	531	416	358	358
25.0	1224	759	486	331	243	198	197
27.5	936	559	312	184	110	77	75
30.0	718	381	178	73	47	41	40
32.5	552	243	75	42	34	30	30
35.0	394	129	44	32	27	25	25
37.5	265	59	33	26	23	22	21
40.0	152	41	27	22	20	16	15
42.5	73	32	23	18	3	3	2
45.0	46	26	19	4	3	2	2
47.5	34	21	4	3	2	1	1
50.0	27	14	3	2	1	1	1
52.5	22	5	3	2	1	1	0
55.0	17	4	2	1	1	0	0
57.5	6	3	1	1	0	0	0
60.0	4	2	1	0	0	0	0
62.5	3	1	1	0	0	0	0
65.0	2	1	0	0	0	0	0
67.5	2	1	0	0	0	0	0
70.0	1	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0



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	CANDELA DISTRIBUTION						
	LATERAL ANGLE						
	125.0	135.0	145.0	155.0	165.0	175.0	180.0
95.0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0



INDEPENDENT TESTING LABORATORIES, INC.
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	76
5- 10	198
10- 15	259
15- 20	268
20- 25	256
25- 30	234
30- 35	211
35- 40	189
40- 45	167
45- 50	145
50- 55	125
55- 60	106
60- 65	92
65- 70	86
70- 75	77
75- 80	43
80- 85	16
85- 90	8
90- 95	6
95-100	5
100-105	4
105-110	3
110-115	2
115-120	1
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	274
0- 20	800
0- 30	1291
0- 40	1692
0- 50	2003
0- 60	2234
0- 70	2413
0- 80	2533
0- 90	2558
0-100	2569
0-110	2576
0-120	2578
0-130	2578
0-140	2578
0-150	2578
0-160	2578
0-170	2578
0-180	2578



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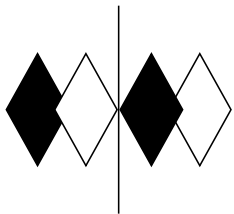
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	111	107	104	100	108	105	102	99	100	98	95	96	94	92	93	91	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	96	87	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	61	56	77	67	60	55	66	59	55	64	58	54	62	58	54	52
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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