



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-STD\_FLSH-LED4-LO-AWL-D1W.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021507501R02  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 6/19/2015  
 [MANUFACT] PRUDENTIAL LTG.  
 [LUMCAT] BIO-STD-FLSH-LED4-LO-AWL-D1W  
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE  
 [MORE] PRISMATIC LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC OT30W/PRG1050C/UNV/DIM/L  
 [BALLAST] INPUT: 120-277VAC, 0.31-0.15A, 50/60Hz. OUTPUT: 30W, 10-55VDC, 350-1050mA  
 [LAMPPOSITION] 0,0  
 [LAMP CAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC, 17.56W  
 [ \_TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1750
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	17.56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.94 ft
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6363	7287	3848
55	4960	5436	3576
65	4032	4188	3073
75	3068	3036	2525
85	1708	1803	1518

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	682	682	682	682	682	682	682	682	682	682
<b>5</b>	941	939	937	932	927	920	912	901	889	874
<b>10</b>	1080	1080	1077	1070	1063	1055	1044	1030	1013	994
<b>15</b>	1247	1243	1236	1222	1204	1183	1162	1138	1112	1086
<b>20</b>	1292	1293	1296	1305	1313	1314	1305	1284	1248	1200
<b>25</b>	1060	1064	1072	1090	1114	1146	1182	1224	1260	1271
<b>30</b>	891	892	896	904	919	940	968	1013	1070	1132
<b>35</b>	776	775	778	783	791	801	814	838	875	933
<b>40</b>	660	660	663	666	675	683	693	708	729	762
<b>45</b>	544	545	547	550	554	563	573	585	600	623
<b>50</b>	429	430	431	435	438	445	453	464	478	496
<b>55</b>	344	343	343	344	345	347	351	356	364	377
<b>60</b>	274	273	274	274	275	277	278	280	283	288
<b>65</b>	206	206	206	206	207	208	209	210	212	214
<b>70</b>	148	148	148	148	148	148	148	148	148	148
<b>75</b>	96	96	96	97	97	97	97	96	96	95
<b>80</b>	50	51	51	51	52	53	53	52	52	51
<b>85</b>	18	18	18	19	19	19	19	19	19	19
<b>90</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>	<b>95</b>
<b>0</b>	682	682	682	682	682	682	682	682	682	682
<b>5</b>	858	839	820	798	773	748	722	698	675	652
<b>10</b>	972	948	921	885	844	800	752	702	655	612
<b>15</b>	1057	1025	989	947	898	838	768	694	624	565
<b>20</b>	1145	1096	1047	994	932	861	771	674	583	510
<b>25</b>	1242	1187	1116	1044	966	875	764	643	535	455
<b>30</b>	1196	1219	1179	1101	1000	885	745	600	481	401
<b>35</b>	1014	1096	1154	1127	1037	895	719	552	427	351
<b>40</b>	817	908	1014	1077	1039	901	686	499	376	307
<b>45</b>	658	717	820	943	977	880	648	447	329	268
<b>50</b>	520	559	629	748	857	804	595	398	287	233
<b>55</b>	396	423	469	555	679	686	514	349	248	198
<b>60</b>	299	317	348	406	507	545	419	297	211	159
<b>65</b>	218	227	245	281	348	389	310	231	157	133
<b>70</b>	150	154	163	183	222	249	205	150	124	98
<b>75</b>	94	96	100	110	130	143	121	97	79	65
<b>80</b>	50	51	52	57	65	69	60	50	42	36
<b>85</b>	19	19	19	20	22	23	21	18	16	15
<b>90</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0</b>	682	682	682	682	682	682	682	682	682	682
<b>5</b>	630	609	588	570	554	540	527	514	503	492
<b>10</b>	572	537	507	478	452	430	412	396	383	372
<b>15</b>	512	471	432	402	376	354	337	323	311	303
<b>20</b>	453	405	368	339	317	300	288	279	270	263
<b>25</b>	396	350	318	295	278	263	253	244	236	233
<b>30</b>	344	306	281	261	246	234	223	217	213	210
<b>35</b>	302	271	249	230	218	207	201	197	192	190

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	266	240	220	205	194	183	179	175	173	173
<b>45</b>	234	211	194	178	171	163	158	156	157	158
<b>50</b>	203	180	170	158	149	142	138	138	139	142
<b>55</b>	168	157	145	135	127	121	119	119	122	125
<b>60</b>	145	132	122	114	107	102	101	103	105	105
<b>65</b>	115	106	98	91	85	82	82	83	84	85
<b>70</b>	85	78	73	68	64	62	62	62	64	66
<b>75</b>	57	53	49	46	43	42	42	43	44	46
<b>80</b>	32	30	28	26	25	24	24	25	26	27
<b>85</b>	13	13	12	12	11	11	11	11	11	11
<b>90</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>						
	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0</b>	682	682	682	682	682	682	682
<b>5</b>	483	475	469	464	461	459	458
<b>10</b>	364	356	350	345	342	340	340
<b>15</b>	296	291	286	283	280	279	279
<b>20</b>	257	252	248	245	243	243	243
<b>25</b>	230	226	224	223	223	223	223
<b>30</b>	209	209	206	205	205	205	205
<b>35</b>	190	190	190	190	190	191	191
<b>40</b>	174	176	177	177	178	179	180
<b>45</b>	160	162	164	166	167	168	169
<b>50</b>	145	147	147	147	146	146	147
<b>55</b>	125	125	125	126	127	126	128
<b>60</b>	106	107	108	109	109	109	109
<b>65</b>	87	88	89	88	87	87	87
<b>70</b>	67	68	66	65	63	62	61
<b>75</b>	47	46	45	42	40	38	38
<b>80</b>	27	26	25	23	21	20	20
<b>85</b>	11	11	10	9	9	9	8
<b>90</b>	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	265.20	N.A.	15.20
0-30	571.92	N.A.	32.70
0-40	913.14	N.A.	52.20
0-60	1484.05	N.A.	84.80
0-80	1731.14	N.A.	98.90
0-90	1750.35	N.A.	100.00
10-90	1684.54	N.A.	96.20
20-40	647.95	N.A.	37.00
20-50	967.74	N.A.	55.30
40-70	737.16	N.A.	42.10
60-80	247.09	N.A.	14.10
70-80	80.84	N.A.	4.60
80-90	19.20	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1750.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.81
10-20	199.39
20-30	306.73
30-40	341.22
40-50	319.80
50-60	251.11
60-70	166.26
70-80	80.84
80-90	19.20
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

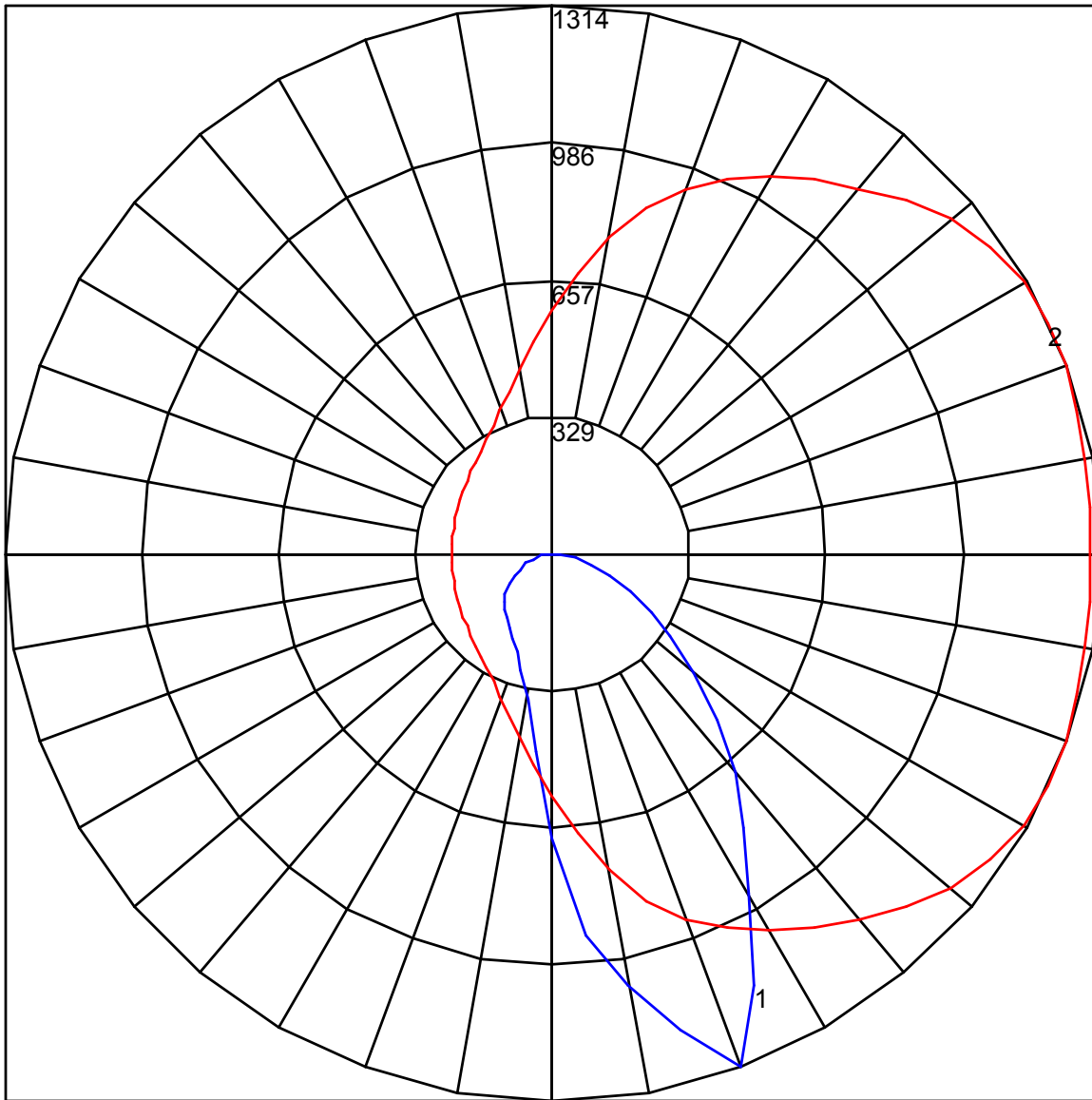
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

POLAR GRAPH



Maximum Candela = 1314 Located At Horizontal Angle = 25, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)