



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PRU15-LED4-MO-SAL-DOWN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031506601
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 3/20/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] PRU15-LED4-MO-Down
 [LUMINAIRE] 48-1/4"L. X 9"W. X 2-3/4"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [TEST CONDITION] PHOTOMETRIC AND ELECTRICAL VALUES ARE PRORATED FROM
 [MORE] LIGHT LABORATORY L021502301. PHOTOMETRIC VALUES ONLY INCLUDE
 [MORE] VERTICAL 0 TO 90 DEGREES. INPUT POWER AND CURRENT IS DIVIDED BY 2.
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.12 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5347	4312	4044
55	4898	3684	3402
65	4485	3077	2819
75	3733	2277	2124
85	2609	1441	1466

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	756.679	756.679	756.679	756.679	756.679	756.679	756.679	756.679	756.679	756.679
5	750.376	750.651	750.233	750.200	750.640	751.322	752.103	752.543	752.851	753.214
10	738.133	738.298	737.770	737.429	737.561	737.902	738.232	738.276	738.067	738.265
15	713.119	713.174	712.789	712.877	713.405	713.977	714.571	715.253	716.067	717.332
20	682.154	682.143	681.923	682.077	682.550	683.122	683.892	684.574	685.014	685.498
25	644.831	644.908	645.106	645.997	646.811	647.130	647.372	647.713	648.263	648.714
30	600.875	600.743	600.776	601.194	602.019	603.097	604.340	605.979	606.771	606.353
35	555.071	554.906	554.763	554.928	555.126	555.907	557.106	557.766	558.129	559.207
40	501.963	501.875	502.040	502.788	503.855	505.494	506.880	507.540	507.100	507.529
45	449.086	449.020	449.999	450.978	451.528	451.902	452.892	453.376	454.025	455.312
50	393.789	393.514	393.822	394.889	396.165	397.287	398.255	399.619	399.377	400.411
55	337.799	337.887	338.591	339.746	340.923	342.254	343.255	343.761	344.949	346.324
60	288.497	288.717	289.509	290.697	291.984	293.645	294.129	295.482	296.835	298.089
65	232.628	232.991	234.278	235.103	236.357	237.875	239.514	241.142	242.957	244.783
70	177.078	177.804	178.530	179.960	181.291	183.293	185.482	187.726	190.014	192.291
75	123.882	124.344	125.554	126.929	129.041	131.615	134.475	137.346	140.052	142.747
80	74.624	75.240	76.736	78.980	81.840	85.206	88.759	92.202	95.744	99.154
85	35.211	35.904	37.653	40.205	43.571	47.366	51.436	55.429	59.367	63.294
90	14.168	15.554	17.633	19.767	23.925	27.456	30.932	35.673	42.130	50.402

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	756.679	756.679	756.679	756.679	756.679	756.679	756.679	756.679	756.679
5	753.896	754.061	753.687	752.873	751.938	751.487	751.388	751.905	752.103
10	738.705	739.002	739.035	738.661	738.529	738.287	737.649	737.704	738.034
15	717.365	716.947	716.529	716.089	715.583	715.902	716.199	715.682	715.748
20	686.246	687.753	687.874	686.752	685.773	685.575	686.136	686.180	685.289
25	649.132	649.517	649.924	650.265	649.407	648.615	648.780	649.198	648.142
30	606.287	606.529	606.606	607.046	606.969	606.122	605.836	606.100	605.935
35	559.614	559.218	559.174	559.251	559.757	559.526	558.668	558.943	559.031
40	508.178	508.508	508.728	508.563	508.706	508.442	508.431	508.805	509.663
45	454.916	455.466	455.818	456.038	455.917	456.456	456.390	456.390	457.413
50	401.093	401.478	402.402	402.402	402.193	403.062	403.260	402.622	403.216
55	347.039	347.875	348.403	348.744	348.733	349.250	349.701	349.206	349.415
60	299.530	300.575	301.235	301.587	302.016	302.577	302.940	302.610	302.841
65	246.411	247.731	248.666	249.601	250.426	251.174	251.284	251.141	251.416
70	194.216	195.888	197.538	199.023	200.134	200.838	201.036	201.245	201.465
75	145.354	147.697	149.765	151.558	152.988	153.912	154.396	154.759	154.979
80	102.311	105.050	107.514	109.615	111.166	112.255	112.948	113.388	113.542
85	66.935	70.136	72.963	75.339	77.165	78.485	79.387	79.827	79.915
90	57.398	59.895	58.993	57.849	57.431	57.431	57.574	57.596	57.519

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	272.95	N.A.	13.40
0-30	571.27	N.A.	28.00
0-40	920.03	N.A.	45.00
0-60	1580.6	N.A.	77.30
0-80	1972.51	N.A.	96.50
0-90	2043.52	N.A.	100.00
10-90	1972.17	N.A.	96.50
20-40	647.09	N.A.	31.70
20-50	997.36	N.A.	48.80
40-70	901.99	N.A.	44.10
60-80	391.90	N.A.	19.20
70-80	150.49	N.A.	7.40
80-90	71.01	N.A.	3.50
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	2043.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.35
10-20	201.60
20-30	298.32
30-40	348.77
40-50	350.27
50-60	310.30
60-70	241.42
70-80	150.49
80-90	71.01
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

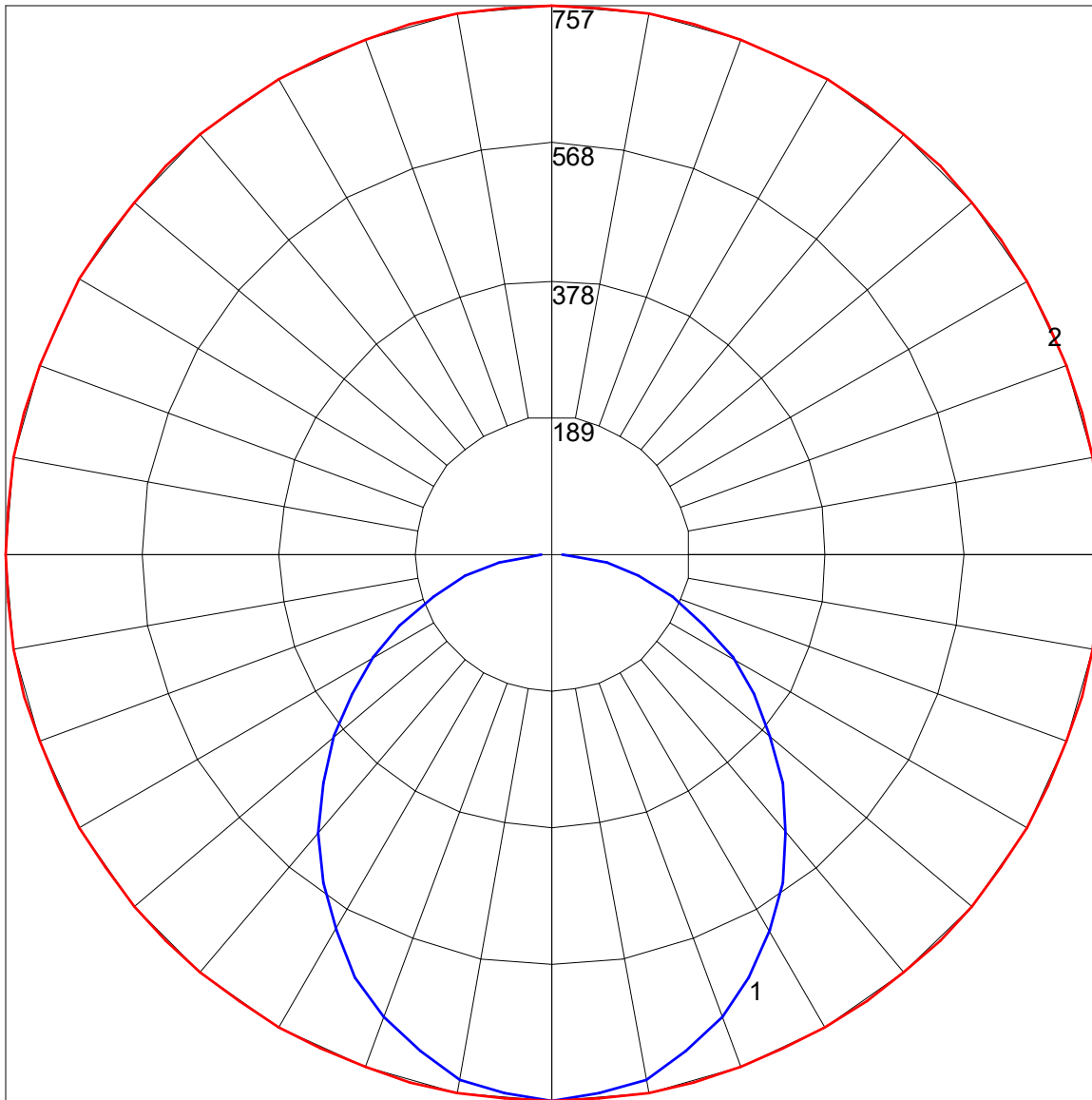
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 756.679 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)