



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAL14-LED4-MO-WFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L091407201
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 9/30/2014
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] Wal14-LED4-MO-WFA
 [LUMINAIRE] 48-1/8"L. X 7-1/8"W. X 4-1/8"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [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	3195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.59 ft
Luminous Height	0.17 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3340	2980	3020
55	3054	2644	2719
65	2681	2267	2420
75	2056	1890	2230
85	965	2019	2296

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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	882.325	882.325	882.325	882.325	882.325	882.325	882.325	882.325	882.325	882.325
5	875.858	875.597	875.467	875.525	875.728	875.916	876.206	876.424	876.366	876.496
10	859.299	858.850	858.879	858.864	859.560	860.169	860.749	861.271	861.576	862.069
15	832.518	832.431	832.605	832.909	833.910	835.186	836.288	837.085	838.028	838.927
20	798.051	797.863	798.211	798.573	800.255	802.256	803.764	805.243	806.722	808.114
25	755.247	755.160	755.624	756.494	758.916	761.511	763.643	765.702	767.587	769.675
30	705.454	705.730	706.440	707.557	710.645	713.908	716.938	718.925	721.419	724.348
35	650.528	651.195	652.167	653.791	657.198	661.186	664.579	667.116	670.437	673.873
40	591.441	592.499	593.920	596.052	599.633	603.940	607.724	610.494	614.104	618.179
45	529.932	530.700	532.179	534.615	538.646	543.417	547.042	550.174	554.567	559.352
50	465.856	466.016	467.364	470.235	475.151	480.052	483.735	487.838	492.681	497.916
55	400.041	400.171	401.259	404.289	409.321	414.526	418.688	423.371	429.447	435.348
60	333.413	333.341	334.283	337.343	342.737	347.870	353.032	358.890	365.763	372.505
65	266.380	266.293	267.438	270.541	276.022	281.938	288.115	294.959	302.267	309.590
70	198.810	199.187	201.072	205.001	210.917	217.631	224.605	232.566	240.657	249.023
75	132.994	133.951	136.706	141.549	148.379	156.020	164.184	175.131	186.601	197.287
80	73.762	75.038	78.532	84.550	92.771	104.313	115.797	126.933	144.391	232.189
85	27.057	28.507	33.655	43.022	80.852	95.352	106.793	118.364	128.862	139.258
90	1.610	13.239	18.879	23.664	30.363	38.179	45.777	54.419	62.017	70.267
95	13.456	26.231	32.045	34.278	36.091	38.657	42.413	46.313	50.576	55.216
100	31.233	37.729	38.425	43.225	50.156	56.768	58.334	59.044	60.277	61.843
105	47.386	51.446	52.737	56.260	62.075	67.469	73.051	77.474	79.344	80.026
110	62.321	63.206	66.715	66.744	71.761	78.039	84.347	88.334	91.524	94.134
115	72.283	71.688	77.256	77.024	79.301	85.318	91.336	96.179	99.557	102.747
120	80.765	78.474	84.912	86.304	85.898	89.625	95.903	101.544	106.851	111.447
125	88.972	84.593	91.568	94.236	95.671	95.816	100.340	104.951	109.794	114.985
130	93.685	88.030	95.468	99.949	101.921	103.226	103.893	107.967	112.593	117.929
135	98.267	90.379	98.890	104.850	108.112	110.171	111.491	112.462	114.942	119.335
140	102.965	93.351	102.515	108.417	112.767	115.420	116.406	117.958	118.958	120.336
145	102.298	95.091	99.166	109.562	115.188	119.045	120.771	121.641	123.105	124.613
150	98.528	94.627	92.119	105.140	112.433	117.842	121.307	123.714	125.440	126.614
155	92.612	93.757	86.348	96.135	106.387	112.375	116.856	119.553	122.627	125.947
160	97.049	97.600	89.175	88.204	98.644	106.996	111.665	114.318	116.740	119.524
165	99.746	100.688	96.222	86.797	86.797	95.483	103.342	107.822	111.186	113.245
170	102.834	103.023	102.863	98.687	91.089	86.855	86.000	89.523	95.135	100.137
175	105.401	105.372	105.285	105.865	105.763	104.647	102.472	99.180	95.062	91.582
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	882.325	882.325	882.325	882.325	882.325	882.325	882.325	882.325	882.325
5	876.699	876.830	877.091	877.163	877.424	877.308	877.497	877.294	877.366
10	862.330	862.910	863.635	863.954	864.577	864.722	864.983	864.780	865.172
15	839.724	840.754	842.073	842.914	843.886	844.132	844.654	844.698	845.060
20	809.506	811.246	813.001	814.712	816.234	816.698	817.351	817.655	818.264
25	771.661	774.112	776.983	779.535	781.347	782.319	783.305	783.595	784.218
30	727.190	731.076	734.179	737.586	739.964	741.124	742.154	742.966	743.488
35	677.310	681.747	685.966	690.026	692.767	694.304	695.783	696.711	697.247
40	622.674	628.010	633.404	637.899	640.871	642.669	644.540	645.642	646.323
45	564.761	571.199	576.883	581.610	584.756	587.366	589.353	590.556	591.644
50	504.310	511.705	517.476	522.522	526.104	529.105	531.280	532.658	534.021
55	442.526	450.269	456.199	461.405	464.972	468.379	471.134	472.483	473.454
60	379.871	387.295	393.385	399.098	403.637	407.189	410.046	411.844	412.743

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65	317.028	324.583	331.775	338.459	344.042	349.131	352.713	354.815	355.801
70	258.506	268.497	277.530	285.592	292.146	296.830	300.991	303.282	304.732
75	207.959	218.704	227.563	234.726	240.657	245.659	250.691	255.215	257.564
80	269.816	282.359	293.060	301.136	306.211	310.866	314.911	315.390	314.926
85	148.915	157.543	165.358	171.680	176.639	180.380	182.976	184.266	184.803
90	77.633	84.927	91.553	96.962	101.442	104.545	106.778	107.634	107.750
95	60.117	64.786	69.049	72.979	75.937	77.851	79.286	79.649	79.736
100	63.452	65.453	67.106	69.020	70.572	71.500	71.790	71.688	71.703
105	80.113	79.910	79.634	79.402	79.011	78.518	78.141	77.503	77.459
110	95.889	97.846	98.383	98.035	97.353	96.440	95.396	94.917	94.613
115	105.850	108.417	109.098	111.897	113.086	113.028	112.926	113.187	113.100
120	114.144	116.914	119.611	122.018	122.931	123.265	123.830	125.092	125.425
125	119.828	124.613	127.919	130.196	131.776	132.632	133.676	135.010	135.880
130	123.105	127.557	131.530	134.415	136.402	137.576	138.823	140.621	141.520
135	123.700	127.963	131.660	135.155	137.272	138.707	140.302	142.100	142.985
140	123.236	126.759	130.123	133.473	135.590	136.982	138.693	140.085	140.839
145	125.585	126.426	128.050	130.863	132.849	134.169	135.343	136.605	137.228
150	128.050	129.036	130.384	131.530	132.385	132.762	133.067	133.806	134.285
155	128.586	129.500	130.863	132.066	133.110	133.429	133.676	134.140	134.676
160	122.830	126.745	129.848	131.399	132.907	133.096	133.197	133.603	134.009
165	115.000	118.103	121.119	126.353	129.558	130.558	131.660	131.994	132.269
170	104.241	105.662	106.836	110.302	113.463	118.654	120.626	123.903	125.831
175	88.465	85.391	82.752	79.953	78.648	81.273	85.173	86.681	86.029
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	319.84	N.A.	10.00
0-30	674.48	N.A.	21.10
0-40	1096.42	N.A.	34.30
0-60	1920.09	N.A.	60.10
0-80	2451.19	N.A.	76.70
0-90	2592.31	N.A.	81.10
10-90	2509.09	N.A.	78.50
20-40	776.58	N.A.	24.30
20-50	1209.51	N.A.	37.90
40-70	1131.71	N.A.	35.40
60-80	531.09	N.A.	16.60
70-80	223.05	N.A.	7.00
80-90	141.12	N.A.	4.40
90-110	140.59	N.A.	4.40
90-120	236.87	N.A.	7.40
90-130	337.85	N.A.	10.60
90-150	507.40	N.A.	15.90
90-180	602.54	N.A.	18.90
110-180	461.94	N.A.	14.50
0-180	3194.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.22
10-20	236.62
20-30	354.64
30-40	421.94
40-50	432.93
50-60	390.74
60-70	308.04
70-80	223.05
80-90	141.12
90-100	64.06
100-110	76.53
110-120	96.27
120-130	100.98
130-140	92.98
140-150	76.57
150-160	55.25
160-170	31.71
170-180	8.17

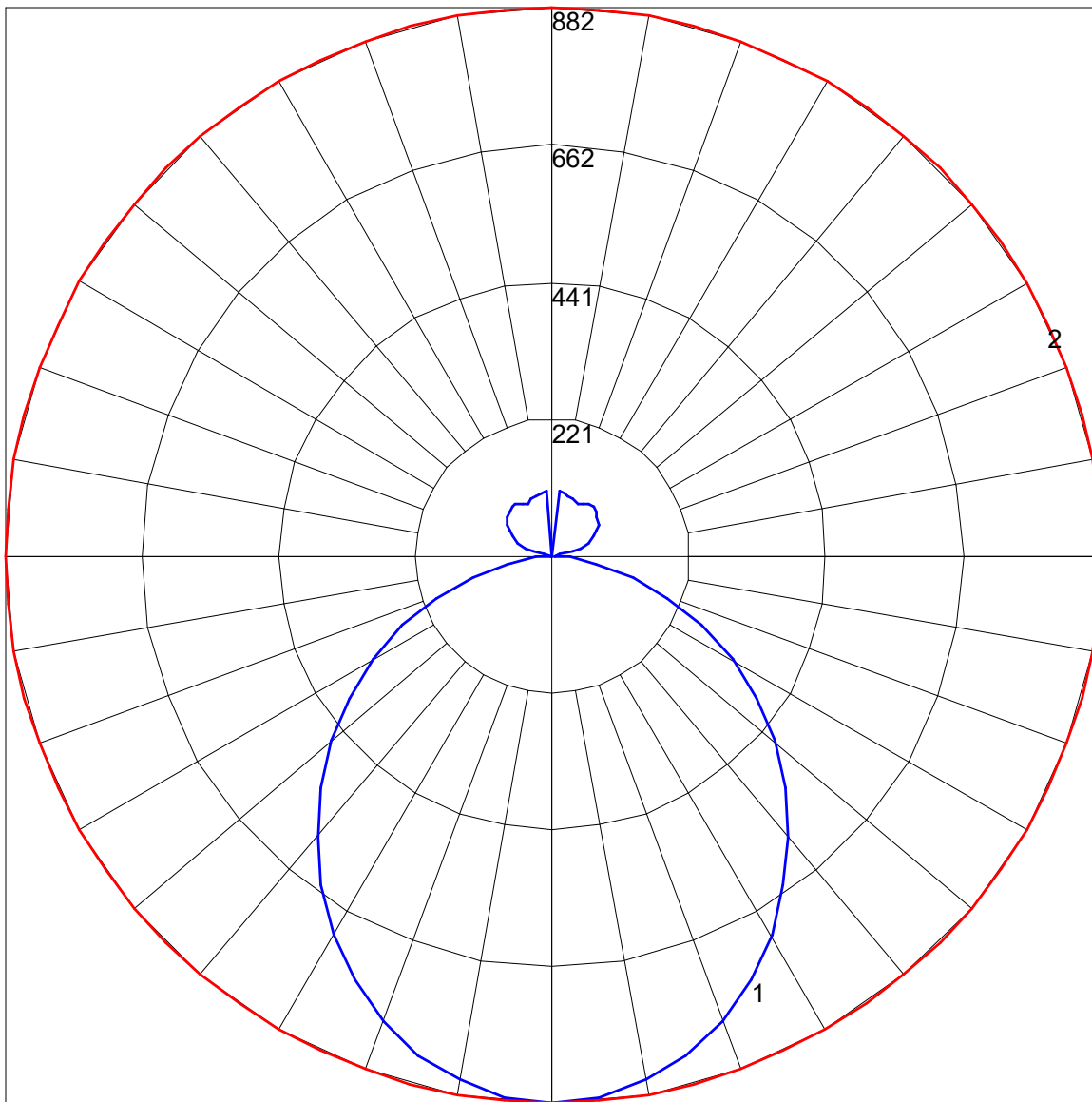
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81
1	103	98	93	89	99	94	90	86	86	83	80	79	76	74	73	71	69	65
2	94	85	78	72	89	81	75	70	75	70	65	69	65	61	63	60	57	54
3	85	74	66	60	81	71	64	58	66	59	54	60	55	51	56	51	48	45
4	78	66	57	50	74	63	55	49	58	52	46	54	48	44	50	45	41	38
5	72	59	50	43	68	56	48	42	52	45	40	48	42	38	45	40	36	33
6	66	53	44	38	63	51	43	37	47	40	35	44	38	33	40	35	31	29
7	61	48	39	33	58	46	38	32	43	36	31	40	34	29	37	32	28	26
8	57	43	35	29	54	42	34	29	39	32	27	36	30	26	34	29	25	23
9	53	40	32	26	51	39	31	26	36	29	25	34	28	24	31	26	22	20
10	50	37	29	24	47	36	28	23	33	27	22	31	25	21	29	24	20	19

POLAR GRAPH



Maximum Candela = 882.325 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.)