



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAL14-LED4SO-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-LED4SO-WFA
 [LUMINAIRE] 48-1/8"L. X 7-1/8"W. X 4-1/8"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4252
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	39
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

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4445	3966	4020
55	4065	3519	3619
65	3569	3017	3220
75	2737	2516	2968
85	1285	2688	3056

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405
5	1165.797	1165.450	1165.276	1165.353	1165.623	1165.874	1166.260	1166.550	1166.473	1166.646
10	1143.757	1143.158	1143.197	1143.178	1144.104	1144.915	1145.687	1146.381	1146.787	1147.443
15	1108.109	1107.994	1108.225	1108.631	1109.962	1111.661	1113.127	1114.189	1115.443	1116.640
20	1062.233	1061.982	1062.446	1062.928	1065.167	1067.830	1069.838	1071.806	1073.775	1075.628
25	1005.260	1005.144	1005.762	1006.920	1010.143	1013.597	1016.434	1019.175	1021.684	1024.463
30	938.984	939.350	940.296	941.782	945.893	950.235	954.269	956.913	960.233	964.131
35	865.875	866.763	868.056	870.218	874.753	880.061	884.577	887.954	892.374	896.948
40	787.228	788.637	790.528	793.365	798.132	803.864	808.902	812.588	817.394	822.817
45	705.357	706.380	708.349	711.591	716.956	723.306	728.131	732.300	738.148	744.517
50	620.070	620.283	622.078	625.899	632.442	638.965	643.867	649.329	655.775	662.743
55	532.468	532.641	534.089	538.123	544.820	551.748	557.287	563.521	571.608	579.463
60	443.784	443.688	444.942	449.014	456.194	463.026	469.897	477.694	486.842	495.817
65	354.560	354.444	355.969	360.099	367.395	375.269	383.491	392.601	402.328	412.074
70	264.622	265.124	267.633	272.863	280.738	289.674	298.957	309.553	320.322	331.458
75	177.020	178.293	181.960	188.407	197.497	207.668	218.534	233.105	248.372	262.596
80	98.179	99.877	104.529	112.538	123.481	138.844	154.130	168.952	192.189	309.051
85	36.014	37.944	44.795	57.263	107.617	126.917	142.144	157.546	171.519	185.357
90	2.142	17.621	25.129	31.498	40.414	50.817	60.930	72.433	82.546	93.528
95	17.910	34.914	42.653	45.625	48.038	51.454	56.452	61.644	67.318	73.494
100	41.572	50.219	51.145	57.533	66.759	75.559	77.644	78.590	80.230	82.314
105	63.072	68.476	70.194	74.884	82.623	89.803	97.233	103.120	105.610	106.517
110	82.951	84.129	88.799	88.838	95.516	103.873	112.268	117.576	121.822	125.296
115	96.210	95.419	102.830	102.522	105.552	113.561	121.571	128.017	132.514	136.760
120	107.501	104.452	113.021	114.874	114.333	119.293	127.650	135.158	142.222	148.340
125	118.425	112.596	121.879	125.431	127.341	127.534	133.556	139.693	146.140	153.049
130	124.697	117.170	127.071	133.035	135.660	137.397	138.284	143.708	149.864	156.967
135	130.796	120.297	131.626	139.558	143.901	146.641	148.398	149.691	152.991	158.839
140	137.049	124.253	136.451	144.306	150.096	153.628	154.940	157.005	158.337	160.171
145	136.161	126.569	131.993	145.831	153.319	158.453	160.750	161.908	163.857	165.864
150	131.143	125.952	122.613	139.944	149.652	156.851	161.464	164.668	166.964	168.528
155	123.269	124.794	114.931	127.959	141.604	149.575	155.539	159.128	163.220	167.640
160	129.175	129.908	118.695	117.402	131.298	142.415	148.629	152.161	155.384	159.090
165	132.765	134.019	128.075	115.530	115.530	127.090	137.551	143.515	147.992	150.733
170	136.876	137.126	136.914	131.356	121.243	115.607	114.468	119.158	126.627	133.286
175	140.292	140.253	140.137	140.909	140.774	139.288	136.393	132.012	126.531	121.899
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**

	50	55	60	65	70	75	80	85	90
0	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405	1174.405
5	1166.917	1167.090	1167.438	1167.534	1167.882	1167.727	1167.978	1167.708	1167.804
10	1147.790	1148.562	1149.527	1149.952	1150.782	1150.975	1151.322	1151.052	1151.573
15	1117.702	1119.072	1120.828	1121.948	1123.241	1123.569	1124.264	1124.321	1124.804
20	1077.480	1079.796	1082.132	1084.409	1086.436	1087.053	1087.922	1088.327	1089.138
25	1027.107	1030.369	1034.190	1037.587	1040.000	1041.293	1042.605	1042.991	1043.821
30	967.914	973.087	977.217	981.752	984.918	986.462	987.832	988.913	989.607
35	901.522	907.428	913.044	918.448	922.096	924.142	926.110	927.346	928.060
40	828.800	835.902	843.082	849.065	853.021	855.415	857.904	859.371	860.278
45	751.716	760.285	767.850	774.142	778.330	781.804	784.448	786.050	787.498
50	671.254	681.097	688.778	695.495	700.262	704.257	707.152	708.985	710.800
55	589.017	599.323	607.217	614.145	618.893	623.429	627.096	628.890	630.184
60	505.621	515.503	523.609	531.213	537.254	541.983	545.785	548.178	549.374

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65	421.975	432.030	441.603	450.501	457.931	464.705	469.472	472.271	473.583
70	344.080	357.378	369.402	380.133	388.856	395.090	400.629	403.679	405.609
75	276.801	291.102	302.894	312.428	320.322	326.981	333.678	339.699	342.826
80	359.134	375.829	390.072	400.822	407.577	413.773	419.157	419.794	419.177
85	198.211	209.694	220.097	228.512	235.113	240.092	243.547	245.264	245.978
90	103.332	113.040	121.860	129.059	135.023	139.153	142.125	143.264	143.418
95	80.018	86.232	91.907	97.137	101.074	103.622	105.532	106.015	106.131
100	84.457	87.120	89.320	91.868	93.933	95.168	95.554	95.419	95.438
105	106.632	106.362	105.996	105.687	105.166	104.509	104.008	103.158	103.101
110	127.631	130.236	130.950	130.487	129.580	128.364	126.975	126.338	125.932
115	140.890	144.306	145.213	148.938	150.521	150.443	150.308	150.656	150.540
120	151.930	155.616	159.206	162.409	163.625	164.069	164.822	166.501	166.945
125	159.495	165.864	170.265	173.295	175.398	176.537	177.927	179.702	180.860
130	163.857	169.782	175.070	178.911	181.555	183.118	184.778	187.171	188.368
135	164.648	170.322	175.244	179.895	182.713	184.624	186.747	189.140	190.317
140	164.031	168.721	173.198	177.656	180.474	182.327	184.604	186.457	187.461
145	167.157	168.277	170.438	174.182	176.827	178.583	180.146	181.825	182.655
150	170.438	171.751	173.546	175.070	176.209	176.711	177.116	178.100	178.737
155	171.152	172.368	174.182	175.784	177.174	177.599	177.927	178.544	179.258
160	163.490	168.701	172.831	174.897	176.904	177.155	177.290	177.830	178.371
165	153.068	157.198	161.213	168.180	172.445	173.777	175.244	175.688	176.055
170	138.748	140.639	142.202	146.815	151.022	157.932	160.557	164.918	167.485
175	117.749	113.658	110.145	106.420	104.683	108.176	113.368	115.375	114.507
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	425.72	N.A.	10.00
0-30	897.76	N.A.	21.10
0-40	1459.37	N.A.	34.30
0-60	2555.71	N.A.	60.10
0-80	3262.61	N.A.	76.70
0-90	3450.45	N.A.	81.10
10-90	3339.68	N.A.	78.50
20-40	1033.65	N.A.	24.30
20-50	1609.89	N.A.	37.90
40-70	1506.35	N.A.	35.40
60-80	706.90	N.A.	16.60
70-80	296.89	N.A.	7.00
80-90	187.84	N.A.	4.40
90-110	187.13	N.A.	4.40
90-120	315.28	N.A.	7.40
90-130	449.69	N.A.	10.60
90-150	675.37	N.A.	15.90
90-180	802.00	N.A.	18.90
110-180	614.86	N.A.	14.50
0-180	4252.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.77
10-20	314.95
20-30	472.04
30-40	561.61
40-50	576.24
50-60	520.09
60-70	410.01
70-80	296.89
80-90	187.84
90-100	85.27
100-110	101.87
110-120	128.14
120-130	134.41
130-140	123.76
140-150	101.91
150-160	73.54
160-170	42.21
170-180	10.88

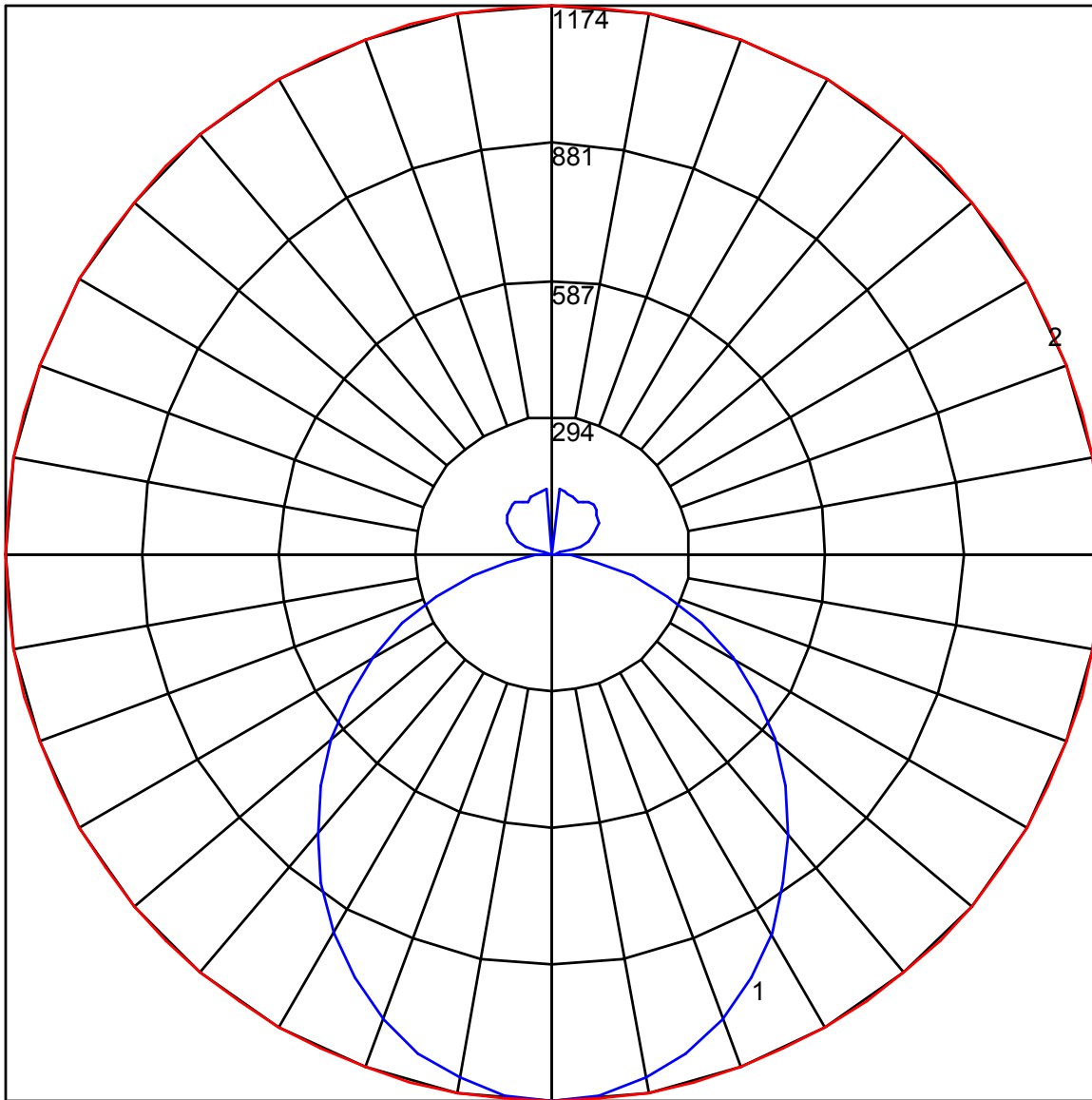
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	60	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	48	36	28	23	33	27	22	31	25	21	29	24	20	19

POLAR GRAPH



Maximum Candela = 1174.405 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.)