



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P46-LED4SO-04-SAL-D3.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412309
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 5/5/2014
 [MANUFACTURER] PRUDENTIAL LIGHTING
 [LUMEN CATEGORY] P46-LED4SO-04-SAL-TMW-D3-SC-UNV
 [LUMINAIRE] 48-1/4"L X 4-1/8"W X 6"H. LED LUMINAIRE.
 [MORE] DOWNLIGHT DIFFUSED LENS.UPLIGHT NO LENS.
 [BALLAST CATEGORY] OSRAM OPTOTRONIC UNV/DIM/L
 [BALLAST] INPUT: 120-277VAC,
 [LAMP POSITION] 0,0
 [LAMP CATEGORY] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 76W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7533
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	76
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.50 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P46-LED4SO-04-SAL-D3.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7996	4051	3296
55	6968	2950	2321
65	5869	2027	1554
75	4274	1129	851
85	2256	377	285

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P46-LED4SO-04-SAL-D3.IES

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095
5	1417.141	1416.929	1416.736	1416.890	1417.373	1418.917	1420.422	1421.155	1421.213	1421.020
10	1390.063	1390.160	1390.623	1391.337	1391.877	1393.190	1393.556	1391.569	1389.349	1387.844
15	1339.381	1339.034	1339.053	1339.420	1339.999	1342.604	1343.705	1340.192	1337.529	1338.050
20	1277.718	1277.563	1278.162	1279.088	1279.088	1277.486	1273.703	1271.580	1269.052	1268.222
25	1197.121	1196.465	1195.847	1195.654	1195.751	1198.086	1194.361	1190.443	1190.733	1182.839
30	1111.217	1109.769	1108.380	1108.495	1111.024	1109.808	1102.551	1097.456	1093.789	1087.536
35	1017.785	1016.492	1014.099	1011.687	1010.143	1007.692	1005.916	998.466	996.073	984.763
40	909.937	909.512	908.856	908.953	909.088	904.051	902.777	892.471	885.233	878.208
45	804.385	803.845	804.231	805.061	801.625	800.680	791.339	784.950	777.848	771.054
50	698.042	697.560	697.598	697.888	694.646	692.947	683.490	677.507	672.972	663.341
55	595.714	595.289	593.359	591.661	589.692	586.450	578.961	572.998	565.992	558.870
60	500.333	500.989	501.047	501.935	496.029	492.941	488.000	480.821	474.355	468.430
65	397.754	398.545	398.487	397.812	393.913	389.879	385.170	380.133	375.211	370.444
70	298.745	299.227	298.532	297.567	294.711	291.700	288.072	284.482	281.124	277.727
75	205.159	206.220	205.892	203.827	202.399	200.585	198.385	196.397	194.505	192.537
80	124.929	125.238	123.809	122.922	121.995	121.339	120.567	119.949	119.390	118.541
85	60.390	60.235	59.618	59.386	59.097	58.711	58.228	58.035	57.842	57.726
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	46.552	59.502	50.740	40.781	42.441	43.618	44.776	45.780	46.069	46.339
100	162.352	163.567	141.334	139.867	122.169	52.998	54.214	55.854	57.417	58.672
105	287.126	291.198	294.614	259.180	248.468	254.567	254.548	142.125	64.925	64.539
110	429.425	435.833	431.085	436.412	395.090	370.097	371.216	374.073	377.797	380.229
115	571.106	579.232	569.736	576.530	580.370	556.689	489.120	489.313	491.494	496.492
120	705.859	715.933	705.280	703.813	712.614	715.277	711.610	619.028	601.060	605.576
125	819.536	822.141	823.068	818.706	819.806	826.426	828.896	833.934	761.076	706.612
130	936.069	937.092	940.643	933.657	935.046	946.414	947.109	947.688	947.669	947.649
135	1043.146	1040.096	1050.441	1047.064	1045.751	1049.051	1052.834	1053.085	1056.559	1060.516
140	1142.309	1139.105	1148.678	1145.185	1142.000	1140.669	1144.027	1145.995	1153.484	1154.835
145	1225.666	1223.350	1225.646	1230.703	1226.148	1226.399	1224.315	1228.387	1237.226	1238.327
150	1298.986	1301.225	1299.257	1308.656	1307.382	1309.679	1309.003	1306.861	1304.043	1306.533
155	1366.421	1368.872	1370.416	1371.072	1379.217	1377.094	1374.044	1373.581	1370.589	1368.486
160	1421.870	1424.321	1425.440	1425.073	1423.993	1430.516	1428.953	1427.891	1425.845	1424.842
165	1465.931	1464.194	1465.777	1466.665	1463.712	1467.572	1472.802	1474.018	1471.162	1469.849
170	1495.885	1493.916	1494.611	1495.789	1496.676	1496.155	1499.610	1499.571	1499.012	1498.664
175	1514.452	1514.645	1515.262	1517.578	1515.783	1520.647	1523.156	1522.673	1522.152	1522.403
180	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251

**Vert.
Angles**

Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095	1431.095
5	1420.499	1420.055	1419.476	1418.646	1417.701	1417.160	1417.643	1418.396	1418.646
10	1386.686	1385.393	1384.563	1383.385	1382.613	1382.208	1382.150	1382.575	1382.517
15	1339.034	1334.460	1330.465	1327.763	1325.698	1325.003	1324.964	1324.617	1324.482
20	1266.254	1260.502	1261.834	1254.519	1250.138	1248.073	1248.073	1247.282	1246.722
25	1176.837	1173.884	1169.155	1166.009	1160.702	1156.475	1156.070	1155.028	1153.889
30	1084.737	1075.898	1069.799	1066.074	1063.874	1056.964	1055.440	1054.320	1053.047
35	979.668	972.353	967.509	959.943	954.925	954.134	949.270	948.170	947.128
40	874.020	863.868	857.209	852.442	847.675	845.398	840.129	838.199	837.137
45	764.087	758.065	748.338	742.374	737.183	734.211	731.200	729.057	728.228
50	656.451	648.017	641.474	635.510	631.245	628.176	625.030	623.004	622.560
55	552.250	545.727	539.840	534.552	530.538	527.643	524.516	522.297	521.968
60	462.524	456.966	452.295	447.953	444.228	441.159	438.650	436.971	436.412

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P46-LED4SO-04-SAL-D3.IES

CANDELA TABULATION - (Cont.)

65	366.005	361.894	357.880	354.483	351.685	348.847	346.686	345.740	344.891
70	274.620	271.551	268.888	266.494	263.889	261.766	260.492	259.739	259.064
75	190.645	188.908	187.268	185.434	183.582	182.597	181.536	181.092	180.687
80	117.498	116.437	115.260	114.642	113.831	113.272	112.731	112.422	112.229
85	57.630	57.417	57.109	56.896	56.723	56.375	56.452	56.202	55.989
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	46.687	47.015	47.208	47.420	47.517	47.420	47.053	46.725	46.436
100	59.560	60.235	60.834	61.393	61.799	61.895	61.432	61.046	60.737
105	65.273	66.045	66.971	67.511	67.897	68.052	67.608	67.338	66.971
110	348.944	138.960	77.567	73.166	72.626	72.452	72.028	71.835	71.371
115	495.624	498.480	503.305	501.858	506.664	505.448	492.903	459.765	445.463
120	608.510	607.429	608.355	614.222	611.945	611.598	620.611	618.468	617.832
125	699.567	703.929	704.604	705.801	706.419	710.394	713.405	709.622	712.305
130	877.339	827.873	803.864	800.564	800.641	806.354	809.133	804.791	809.654
135	1060.052	1057.312	1046.542	986.577	950.834	933.194	915.920	909.744	913.797
140	1155.723	1154.043	1152.557	1156.938	1158.232	1161.725	1159.486	1159.216	1159.100
145	1239.311	1239.774	1241.955	1245.197	1243.711	1239.948	1248.459	1245.487	1244.966
150	1309.293	1317.321	1319.618	1321.452	1317.939	1318.711	1317.862	1321.104	1321.162
155	1366.054	1369.856	1370.570	1372.365	1374.102	1375.743	1378.927	1384.717	1386.261
160	1423.143	1421.291	1419.534	1417.932	1418.125	1419.245	1421.966	1422.989	1429.725
165	1466.974	1467.398	1466.395	1464.677	1466.163	1467.842	1472.764	1463.075	1475.871
170	1501.714	1504.531	1506.809	1506.172	1505.805	1506.944	1505.844	1501.887	1510.707
175	1520.666	1521.458	1521.052	1521.014	1518.234	1521.226	1515.262	1519.856	1520.010
180	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251	1528.251

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P46-LED4SO-04-SAL-D3.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	510.20	N.A.	6.80
0-30	1053.21	N.A.	14.00
0-40	1668.53	N.A.	22.10
0-60	2766.42	N.A.	36.70
0-80	3342.41	N.A.	44.40
0-90	3406.12	N.A.	45.20
10-90	3271.66	N.A.	43.40
20-40	1158.33	N.A.	15.40
20-50	1752.64	N.A.	23.30
40-70	1467.24	N.A.	19.50
60-80	576.00	N.A.	7.60
70-80	206.64	N.A.	2.70
80-90	63.71	N.A.	0.80
90-110	213.91	N.A.	2.80
90-120	694.57	N.A.	9.20
90-130	1376.55	N.A.	18.30
90-150	2934.88	N.A.	39.00
90-180	4126.92	N.A.	54.80
110-180	3913.02	N.A.	51.90
0-180	7533.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.46
10-20	375.74
20-30	543.02
30-40	615.32
40-50	594.31
50-60	503.58
60-70	369.36
70-80	206.64
80-90	63.71
90-100	47.39
100-110	166.52
110-120	480.66
120-130	681.98
130-140	785.05
140-150	773.28
150-160	633.15
160-170	414.42
170-180	144.48

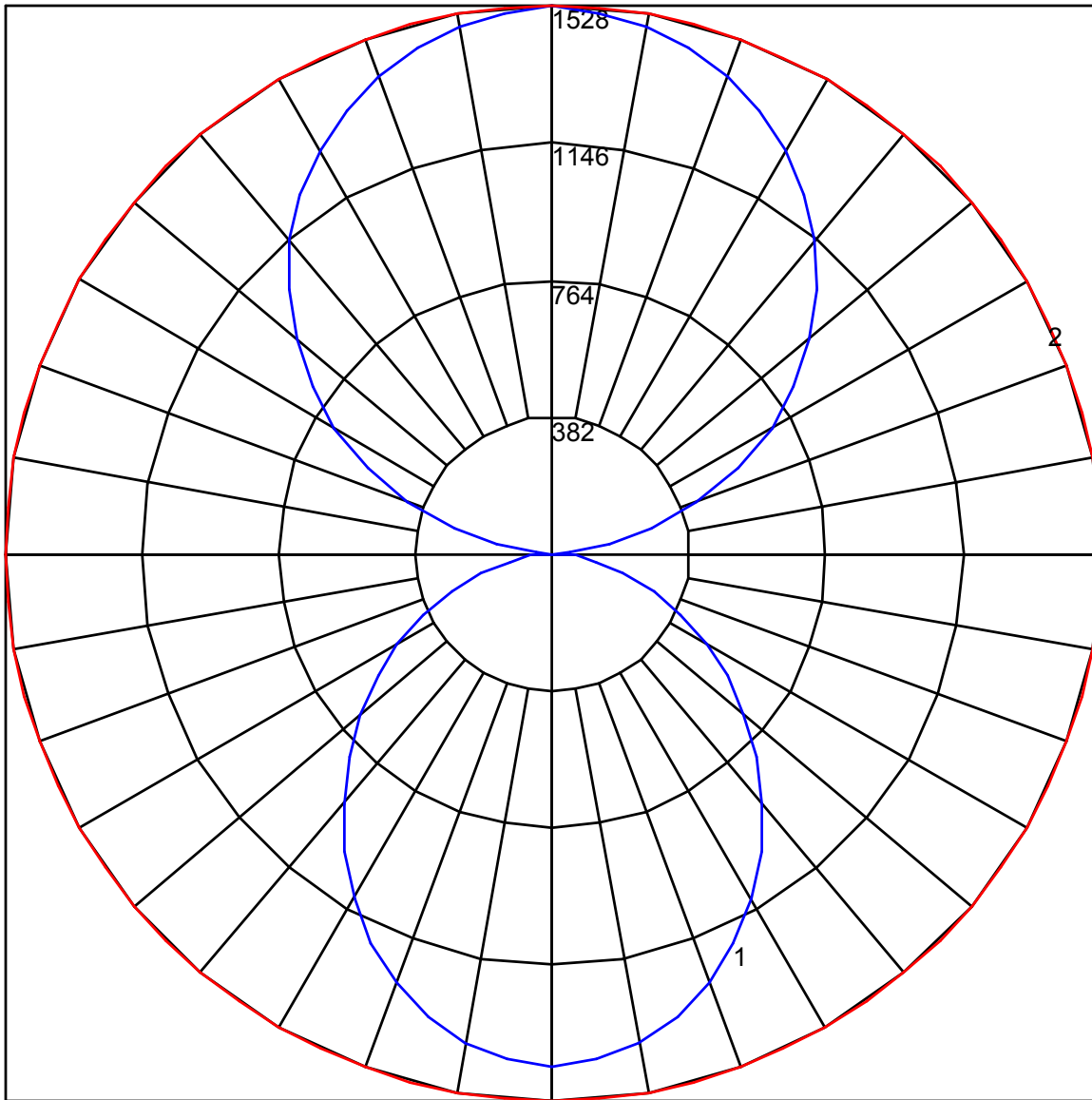
IES INDOOR REPORT
PHOTOMETRIC FILENAME : P46-LED4SO-04-SAL-D3.IES

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	46	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	37	33	32	30	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	50	43	37	57	47	40	34	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1528.251 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)