

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00678 ~ PR1605LEDLX65L35KEXCD3X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[LUMCAT] CRT1804171150-001, Model: PR1605LEDLX65L35KEX/CD3X
[LUMINAIRE] LED Highbay
[LAMP] LED
[USER DEFINED] 120.01 VAC, 912.5 mA, 109.12 W, 0.9964 PF
[TEST] SP-00678
[TESTLAB] Intertek
[ISSUEDATE] 04/23/2018
[MANUFAC] Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	56.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.29 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8693	8764	8787
55	11266	11178	11091
65	13082	13094	13058
75	12563	12492	12370
85	3548	3633	3601

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1825.219	1825.219	1825.219	1825.219	1825.219	1825.219	1825.219	1825.219	1825.219	1825.219
2.5	1804.542	1806.332	1805.955	1806.379	1802.423	1806.379	1805.955	1806.332	1804.542	1806.332
5.0	1750.424	1750.189	1749.859	1744.678	1747.457	1744.678	1749.859	1750.189	1750.424	1750.189
7.5	1671.438	1667.905	1667.905	1667.905	1669.648	1667.905	1667.905	1667.905	1671.438	1667.905
10.0	1583.737	1575.636	1575.071	1576.531	1578.462	1576.531	1575.071	1575.636	1583.737	1575.636
12.5	1479.552	1476.632	1475.313	1475.219	1482.472	1475.219	1475.313	1476.632	1479.552	1476.632
15.0	1379.653	1373.295	1373.813	1376.074	1377.581	1376.074	1373.813	1373.295	1379.653	1373.295
17.5	1289.410	1285.736	1286.160	1286.489	1290.728	1286.489	1286.160	1285.736	1289.410	1285.736
20.0	1219.231	1217.394	1216.452	1216.357	1218.618	1216.357	1216.452	1217.394	1219.231	1217.394
22.5	1166.479	1165.866	1165.584	1162.852	1168.645	1162.852	1165.584	1165.866	1166.479	1165.866
25.0	1130.871	1130.353	1134.451	1127.809	1135.722	1127.809	1134.451	1130.353	1130.871	1130.353
27.5	1113.679	1112.031	1119.897	1112.125	1122.723	1112.125	1119.897	1112.031	1113.679	1112.031
30.0	1105.013	1102.328	1109.158	1106.850	1113.585	1106.850	1109.158	1102.328	1105.013	1102.328
32.5	1092.579	1093.097	1096.959	1101.151	1101.104	1101.151	1096.959	1093.097	1092.579	1093.097
35.0	1079.956	1079.014	1082.170	1089.564	1086.503	1089.564	1082.170	1079.014	1079.956	1079.014
37.5	1058.902	1059.420	1062.811	1071.337	1069.547	1071.337	1062.811	1059.420	1058.902	1059.420
40.0	1036.059	1034.740	1043.736	1051.555	1051.272	1051.555	1043.736	1034.740	1036.059	1034.740
42.5	1021.316	1017.266	1029.700	1035.211	1034.740	1035.211	1029.700	1017.266	1021.316	1017.266
45.0	1014.581	1012.838	1022.918	1028.570	1025.602	1028.570	1022.918	1012.838	1014.581	1012.838
47.5	1018.537	1024.472	1026.921	1038.696	1025.367	1038.696	1026.921	1024.472	1018.537	1024.472
50.0	1044.113	1061.587	1054.239	1069.170	1045.573	1069.170	1054.239	1061.587	1044.113	1061.587
52.5	1098.278	1124.936	1101.481	1119.897	1091.919	1119.897	1101.481	1124.936	1098.278	1124.936
55.0	1165.772	1194.880	1156.682	1172.460	1147.686	1172.460	1156.682	1194.880	1165.772	1194.880
57.5	1208.303	1232.466	1200.814	1215.368	1186.873	1215.368	1200.814	1232.466	1208.303	1232.466
60.0	1222.339	1247.773	1219.042	1234.397	1203.358	1234.397	1219.042	1247.773	1222.339	1247.773
62.5	1191.913	1224.176	1190.029	1209.716	1188.474	1209.716	1190.029	1224.176	1191.913	1224.176
65.0	1139.537	1164.830	1140.526	1155.269	1137.418	1155.269	1140.526	1164.830	1139.537	1164.830
67.5	1088.010	1105.814	1087.445	1105.720	1086.974	1105.720	1087.445	1105.814	1088.010	1105.814
70.0	1036.388	1050.047	1037.330	1055.652	1026.121	1055.652	1037.330	1050.047	1036.388	1050.047
72.5	966.256	970.260	972.285	983.071	963.430	983.071	972.285	970.260	966.256	970.260
75.0	855.289	846.151	850.438	854.677	842.148	854.677	850.438	846.151	855.289	846.151
77.5	669.385	662.226	671.599	674.142	662.132	674.142	671.599	662.226	669.385	662.226
80.0	470.199	462.993	469.681	477.500	466.714	477.500	469.681	462.993	470.199	462.993
82.5	284.719	287.687	291.078	296.542	290.089	296.542	291.078	287.687	284.719	287.687
85.0	166.734	170.408	170.690	174.034	169.230	174.034	170.690	170.408	166.734	170.408
87.5	121.141	123.449	122.790	124.438	121.377	124.438	122.790	123.449	121.141	123.449
90.0	108.660	109.460	108.613	109.743	108.895	109.743	108.613	109.460	108.660	109.460
92.5	103.243	103.761	103.008	104.279	103.432	104.279	103.008	103.761	103.243	103.761
95.0	96.414	97.356	96.367	97.874	96.602	97.874	96.367	97.356	96.414	97.356
97.5	87.700	88.783	88.124	89.207	87.747	89.207	88.124	88.783	87.700	88.783
100.0	78.421	79.363	78.610	79.976	78.327	79.976	78.610	79.363	78.421	79.363
102.5	67.683	68.860	67.871	69.378	67.777	69.378	67.871	68.860	67.683	68.860
105.0	56.755	57.886	56.803	58.310	56.426	58.310	56.803	57.886	56.755	57.886
107.5	45.546	46.817	45.922	47.288	45.546	47.288	45.922	46.817	45.546	46.817
110.0	35.984	37.162	36.361	37.397	35.749	37.397	36.361	37.162	35.984	37.162
112.5	27.506	28.731	28.072	28.966	27.601	28.966	28.072	28.731	27.506	28.731
115.0	20.865	21.760	21.289	22.043	20.959	22.043	21.289	21.760	20.865	21.760
117.5	15.402	16.202	15.684	16.202	15.449	16.202	15.684	16.202	15.402	16.202
120.0	10.927	11.257	11.257	11.445	11.068	11.445	11.257	11.257	10.927	11.257
122.5	6.924	7.395	7.253	7.300	7.206	7.300	7.253	7.395	6.924	7.395
125.0	3.721	3.956	3.956	3.862	3.721	3.862	3.956	3.956	3.721	3.956

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CANDELA TABULATION - (Cont.)

127.5	0.895	1.130	1.319	1.177	1.083	1.177	1.319	1.130	0.895	1.130
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1825.219	1825.219	1825.219	1825.219	1825.219	1825.219	1825.219
2.5	1805.955	1806.379	1802.423	1806.379	1805.955	1806.332	1804.542
5.0	1749.859	1744.678	1747.457	1744.678	1749.859	1750.189	1750.424
7.5	1667.905	1667.905	1669.648	1667.905	1667.905	1667.905	1671.438
10.0	1575.071	1576.531	1578.462	1576.531	1575.071	1575.636	1583.737
12.5	1475.313	1475.219	1482.472	1475.219	1475.313	1476.632	1479.552
15.0	1373.813	1376.074	1377.581	1376.074	1373.813	1373.295	1379.653
17.5	1286.160	1286.489	1290.728	1286.489	1286.160	1285.736	1289.410
20.0	1216.452	1216.357	1218.618	1216.357	1216.452	1217.394	1219.231
22.5	1165.584	1162.852	1168.645	1162.852	1165.584	1165.866	1166.479
25.0	1134.451	1127.809	1135.722	1127.809	1134.451	1130.353	1130.871
27.5	1119.897	1112.125	1122.723	1112.125	1119.897	1112.031	1113.679
30.0	1109.158	1106.850	1113.585	1106.850	1109.158	1102.328	1105.013
32.5	1096.959	1101.151	1101.104	1101.151	1096.959	1093.097	1092.579
35.0	1082.170	1089.564	1086.503	1089.564	1082.170	1079.014	1079.956
37.5	1062.811	1071.337	1069.547	1071.337	1062.811	1059.420	1058.902
40.0	1043.736	1051.555	1051.272	1051.555	1043.736	1034.740	1036.059
42.5	1029.700	1035.211	1034.740	1035.211	1029.700	1017.266	1021.316
45.0	1022.918	1028.570	1025.602	1028.570	1022.918	1012.838	1014.581
47.5	1026.921	1038.696	1025.367	1038.696	1026.921	1024.472	1018.537
50.0	1054.239	1069.170	1045.573	1069.170	1054.239	1061.587	1044.113
52.5	1101.481	1119.897	1091.919	1119.897	1101.481	1124.936	1098.278
55.0	1156.682	1172.460	1147.686	1172.460	1156.682	1194.880	1165.772
57.5	1200.814	1215.368	1186.873	1215.368	1200.814	1232.466	1208.303
60.0	1219.042	1234.397	1203.358	1234.397	1219.042	1247.773	1222.339
62.5	1190.029	1209.716	1188.474	1209.716	1190.029	1224.176	1191.913
65.0	1140.526	1155.269	1137.418	1155.269	1140.526	1164.830	1139.537

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CANDELA TABULATION - (Cont.)

67.5	1087.445	1105.720	1086.974	1105.720	1087.445	1105.814	1088.010
70.0	1037.330	1055.652	1026.121	1055.652	1037.330	1050.047	1036.388
72.5	972.285	983.071	963.430	983.071	972.285	970.260	966.256
75.0	850.438	854.677	842.148	854.677	850.438	846.151	855.289
77.5	671.599	674.142	662.132	674.142	671.599	662.226	669.385
80.0	469.681	477.500	466.714	477.500	469.681	462.993	470.199
82.5	291.078	296.542	290.089	296.542	291.078	287.687	284.719
85.0	170.690	174.034	169.230	174.034	170.690	170.408	166.734
87.5	122.790	124.438	121.377	124.438	122.790	123.449	121.141
90.0	108.613	109.743	108.895	109.743	108.613	109.460	108.660
92.5	103.008	104.279	103.432	104.279	103.008	103.761	103.243
95.0	96.367	97.874	96.602	97.874	96.367	97.356	96.414
97.5	88.124	89.207	87.747	89.207	88.124	88.783	87.700
100.0	78.610	79.976	78.327	79.976	78.610	79.363	78.421
102.5	67.871	69.378	67.777	69.378	67.871	68.860	67.683
105.0	56.803	58.310	56.426	58.310	56.803	57.886	56.755
107.5	45.922	47.288	45.546	47.288	45.922	46.817	45.546
110.0	36.361	37.397	35.749	37.397	36.361	37.162	35.984
112.5	28.072	28.966	27.601	28.966	28.072	28.731	27.506
115.0	21.289	22.043	20.959	22.043	21.289	21.760	20.865
117.5	15.684	16.202	15.449	16.202	15.684	16.202	15.402
120.0	11.257	11.445	11.068	11.445	11.257	11.257	10.927
122.5	7.253	7.300	7.206	7.300	7.253	7.395	6.924
125.0	3.956	3.862	3.721	3.862	3.956	3.956	3.721
127.5	1.319	1.177	1.083	1.177	1.319	1.130	0.895
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	548.44	N.A.	9.10
0-30	1076.36	N.A.	17.90
0-40	1754.05	N.A.	29.10
0-60	3594.38	N.A.	59.70
0-80	5587.85	N.A.	92.90
0-90	5825.72	N.A.	96.80
10-90	5664.34	N.A.	94.10
20-40	1205.6	N.A.	20.00
20-50	2004.75	N.A.	33.30
40-70	2977.12	N.A.	49.50
60-80	1993.47	N.A.	33.10
70-80	856.68	N.A.	14.20
80-90	237.87	N.A.	4.00
90-110	165.60	N.A.	2.80
90-120	188.01	N.A.	3.10
90-130	192.12	N.A.	3.20
90-150	192.12	N.A.	3.20
90-180	192.12	N.A.	3.20
110-180	26.53	N.A.	0.40
0-180	6017.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.38
10-20	387.06
20-30	527.91
30-40	677.69
40-50	799.14
50-60	1041.18
60-70	1136.79
70-80	856.68
80-90	237.87
90-100	104.56
100-110	61.03
110-120	22.41
120-130	4.11
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

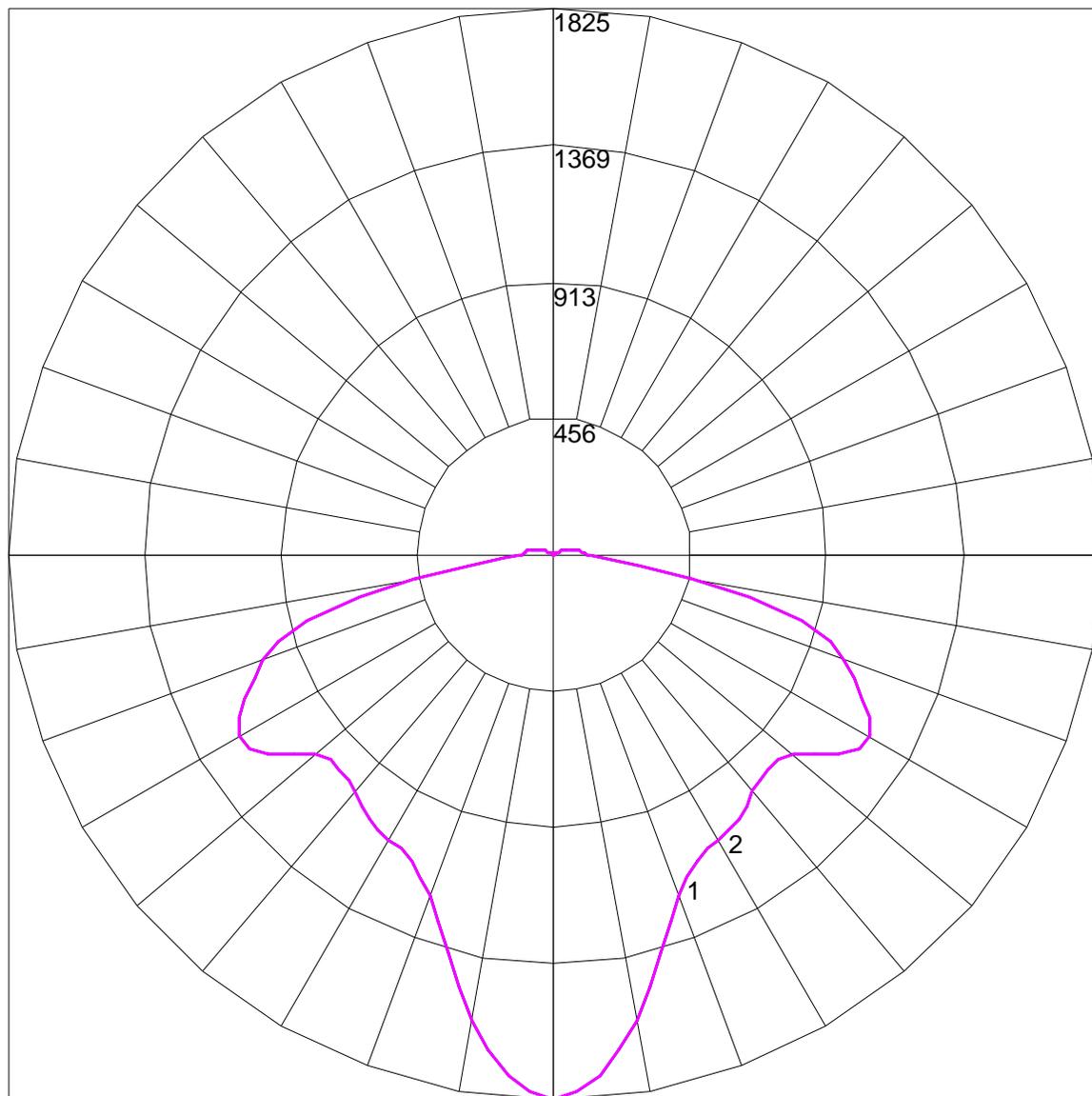
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	105	99	94	89	102	96	91	87	91	87	84	87	83	80	83	80	77	75
2	93	83	75	68	90	81	73	67	77	70	65	73	67	63	69	65	61	58
3	84	71	62	54	81	69	60	53	66	58	52	62	56	50	59	54	49	46
4	76	62	52	44	73	60	51	43	57	49	42	54	47	41	52	46	40	38
5	69	54	44	37	67	53	44	36	50	42	36	48	41	35	46	39	34	32
6	63	49	39	31	61	47	38	31	45	37	31	43	36	30	41	35	29	27
7	59	44	34	27	56	43	34	27	41	33	27	39	32	26	37	31	26	23
8	54	40	30	24	53	39	30	24	37	29	23	36	28	23	34	28	23	21
9	51	36	27	21	49	36	27	21	34	26	21	33	26	21	31	25	20	18
10	48	33	25	19	46	33	25	19	32	24	19	30	24	19	29	23	18	17

POLAR GRAPH



Maximum Candela = 1825.219 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)