

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP530P L1410 1 XLED19S_830 OC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LVW2085700
 [TESTLAB]
 [MANUFAC] PHILIPS
 [LUMCAT]
 [LUMINAIRE] SP530P OC LED19S/830 NO
 [LAMP] LED19S/830
 [BALLAST] -
 [ISSUEDATE] 2015-11-03
 [OTHER] B-Angle = 0.00 B-Tilt = 0.00 2019-06-21

CHARACTERISTICS

Lumens Per Lamp	1900 (1 lamp)
Total Lamp Lumens	1900
Luminaire Lumens	1900
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.41 m
Luminous Width (90-270)	0.05 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3644	4078	4800
55	1329	1141	1211
65	943	652	648
75	662	467	462
85	373	283	283

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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	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80
4	1109.79	1110.17	1109.79	1110.17	1109.79	1109.60	1109.60	1109.22	1109.60	1109.79
8	1124.80	1124.99	1124.61	1124.61	1124.04	1123.28	1122.90	1121.95	1122.33	1120.81
12	1148.93	1149.31	1148.55	1148.36	1147.60	1145.70	1144.37	1142.47	1141.90	1140.19
16	1182.18	1182.18	1181.04	1180.09	1178.95	1177.05	1175.15	1172.68	1169.83	1167.55
20	1220.94	1221.51	1220.75	1219.61	1217.90	1215.43	1212.96	1209.73	1206.50	1203.46
24	1255.33	1255.52	1254.57	1253.81	1252.10	1250.39	1249.06	1246.59	1244.31	1241.46
28	1274.71	1274.14	1274.33	1273.57	1271.86	1269.20	1267.87	1266.73	1267.11	1269.77
32	1221.51	1219.80	1220.94	1219.99	1218.66	1215.62	1216.76	1217.90	1219.61	1222.65
36	948.67	947.34	949.43	949.43	949.24	949.81	954.75	957.98	960.07	963.11
40	510.91	511.29	513.57	516.42	519.65	524.21	531.24	536.56	540.74	545.68
44	224.39	224.77	226.10	228.00	230.66	234.46	239.59	243.77	247.76	252.13
46	152.57	152.76	153.14	153.90	155.42	157.70	160.93	163.40	166.44	169.67
48	111.91	112.10	111.72	111.72	111.91	113.05	114.57	115.90	117.61	119.70
50	87.02	87.02	86.26	85.50	85.12	85.12	85.69	86.07	87.02	88.16
52	70.87	70.68	69.54	68.40	67.26	66.88	66.50	66.50	66.69	67.07
54	59.85	59.47	57.95	56.43	55.10	54.15	53.58	53.01	52.82	53.01
56	51.68	51.11	49.40	47.69	45.98	44.84	43.89	43.13	42.94	42.75
58	45.60	44.84	42.94	41.04	39.33	38.00	36.86	36.10	35.72	35.34
60	40.28	39.52	37.62	35.53	33.82	32.49	31.35	30.59	30.02	29.64
62	35.53	34.96	33.06	31.16	29.45	28.12	26.98	26.22	25.65	25.27
64	31.16	30.59	29.07	27.17	25.65	24.32	23.37	22.61	22.04	21.66
66	27.17	26.60	25.27	23.75	22.23	21.09	20.14	19.38	18.81	18.62
68	23.37	22.99	21.85	20.52	19.19	18.24	17.29	16.72	16.34	15.96
70	19.95	19.76	18.81	17.67	16.53	15.58	14.82	14.25	13.87	13.68
72	16.91	16.72	15.96	15.01	14.06	13.30	12.73	12.16	11.78	11.59
74	13.87	13.87	13.30	12.54	11.78	11.02	10.64	10.26	9.88	9.69
76	11.21	11.21	10.64	10.07	9.50	9.12	8.74	8.36	8.17	7.98
78	8.93	8.74	8.36	7.98	7.60	7.22	6.84	6.65	6.46	6.46
80	6.65	6.65	6.27	6.08	5.70	5.51	5.32	5.13	4.94	4.94
82	4.75	4.75	4.56	4.37	4.18	3.99	3.80	3.61	3.61	3.61
84	3.04	3.04	2.85	2.85	2.66	2.66	2.47	2.47	2.47	2.28
86	1.71	1.71	1.52	1.52	1.52	1.33	1.33	1.33	1.33	1.33
88	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
90	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19

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	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80	1105.80
4	1109.22	1109.41	1108.65	1108.65	1109.03	1109.22	1109.03	1108.84	1109.03
8	1121.00	1120.24	1119.67	1118.53	1118.91	1118.72	1118.53	1117.96	1117.96
12	1139.43	1137.72	1136.77	1135.44	1134.87	1134.49	1134.11	1133.35	1133.35
16	1166.03	1163.75	1160.52	1158.81	1157.67	1157.10	1156.15	1156.15	1155.58
20	1200.80	1198.33	1195.67	1194.15	1193.20	1191.87	1191.30	1190.73	1190.16
24	1241.65	1241.46	1239.94	1239.94	1238.99	1237.09	1235.76	1235.57	1234.81
28	1272.81	1273.38	1273.38	1274.52	1273.00	1271.10	1269.39	1269.20	1268.06
32	1226.07	1229.30	1228.92	1229.87	1227.21	1223.22	1219.61	1217.90	1216.00
36	967.29	968.05	972.42	973.56	972.99	970.90	968.81	968.05	967.10
40	550.81	554.99	561.64	570.00	577.22	583.11	588.24	591.66	591.85
44	256.69	260.68	266.19	273.03	280.63	287.66	292.79	296.02	296.59
46	172.71	175.94	179.74	184.30	189.62	193.99	197.60	199.69	199.88
48	121.79	123.69	126.16	128.82	132.05	134.71	136.80	138.32	138.51
50	89.30	90.44	91.77	93.29	95.00	96.71	98.23	99.37	99.56
52	67.64	68.40	68.97	69.92	71.06	72.01	73.15	73.91	74.10
54	53.20	53.39	53.77	54.34	54.91	55.67	56.24	56.81	56.81
56	42.75	42.75	42.94	43.32	43.70	44.08	44.46	44.65	44.84
58	35.15	35.15	35.15	35.34	35.72	35.91	36.10	36.29	36.48

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CANDELA TABULATION - (Cont.)

60	29.45	29.26	29.45	29.45	29.64	29.83	30.02	30.21	30.21
62	25.08	24.89	24.89	25.08	25.08	25.27	25.27	25.46	25.46
64	21.47	21.28	21.28	21.28	21.47	21.47	21.66	21.66	21.66
66	18.24	18.24	18.24	18.24	18.24	18.24	18.43	18.43	18.43
68	15.77	15.58	15.58	15.58	15.58	15.77	15.77	15.77	15.77
70	13.49	13.30	13.30	13.30	13.30	13.49	13.49	13.49	13.49
72	11.40	11.40	11.21	11.21	11.21	11.40	11.40	11.40	11.40
74	9.69	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.69
76	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79
78	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27
80	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75
82	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42
84	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
86	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
88	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
90	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	437.54	23.00	23.00
0-30	880.60	46.30	46.30
0-40	1625.4	85.50	85.50
0-60	1865.28	98.20	98.20
0-80	1897.73	99.90	99.90
0-90	1900.11	100.00	100.00
10-90	1832.02	96.40	96.40
20-40	1187.86	62.50	62.50
20-50	1380.17	72.60	72.60
40-70	262.02	13.80	13.80
60-80	32.44	1.70	1.70
70-80	10.31	0.50	0.50
80-90	2.38	0.10	0.10
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1900.11	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.08
10-20	369.46
20-30	443.06
30-40	744.80
40-50	192.31
50-60	47.58
60-70	22.14
70-80	10.31
80-90	2.38
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

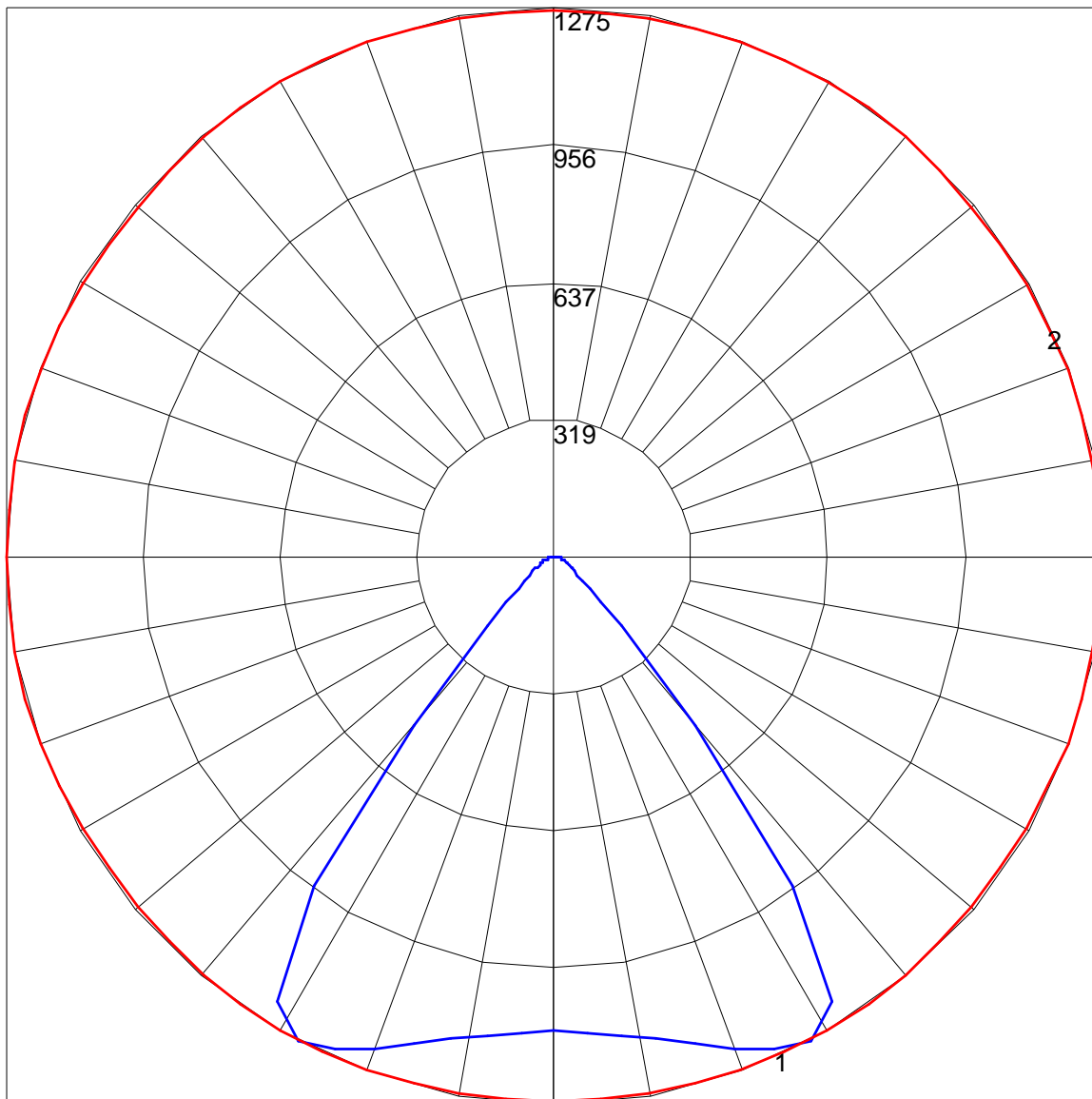
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	92	104	98	94	90	95	92	88	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	45	66	56	49	45	55	49	45	54	48	45	53	48	44	43
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	44	41	39

POLAR GRAPH



Maximum Candela = 1274.71 Located At Horizontal Angle = 0, Vertical Angle = 28

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (28) (Through Max. Cd.)