

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P561765

Luminaire Tested: **SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561765
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

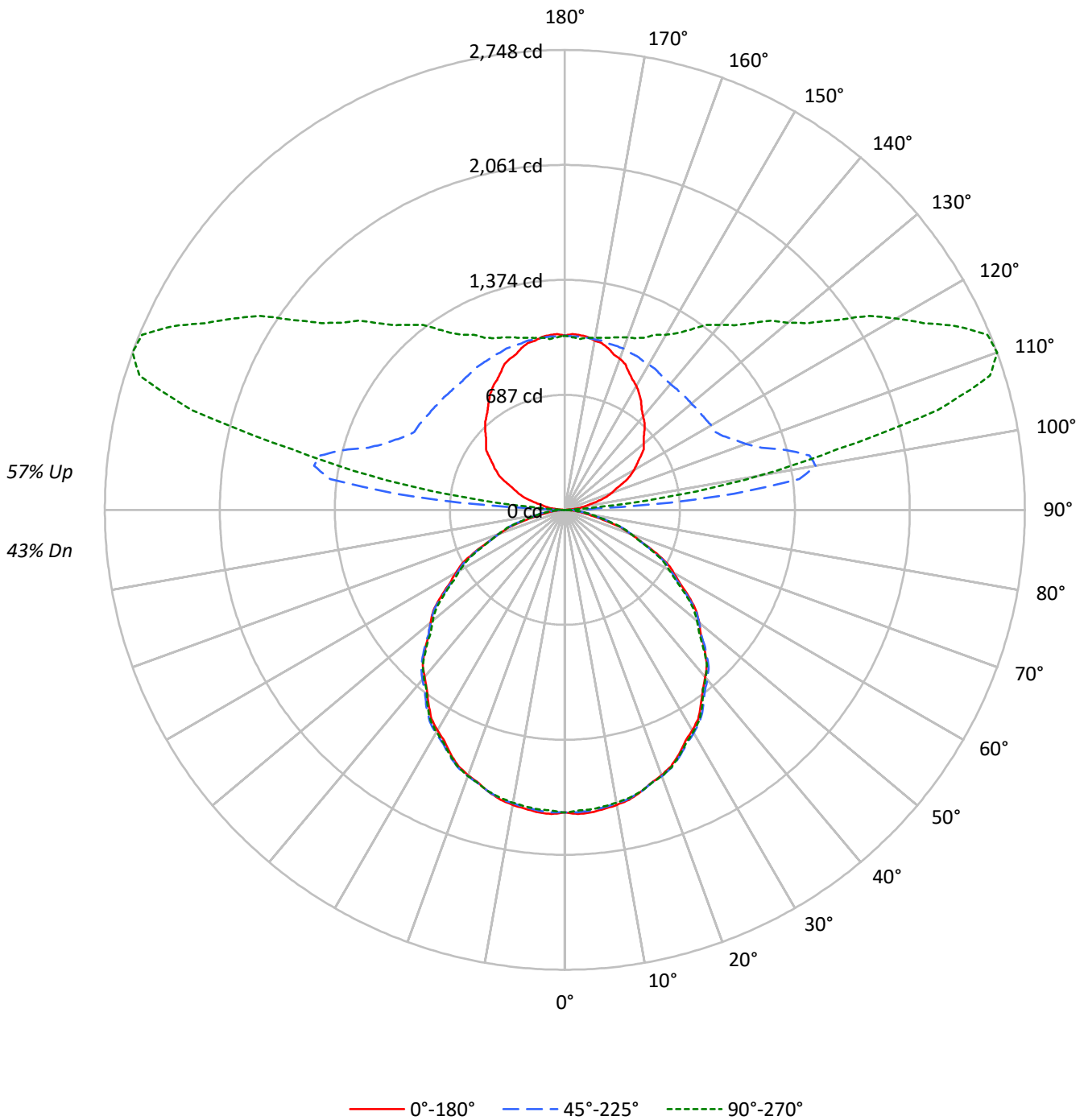
Lumens per Lamp: N/A
Luminaire Lumens: 11399.1 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	0	
RCR																						
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43				
1	96	92	88	85	88	84	81	78	70	68	65	57	55	54	44	43	42	37				
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31				
3	80	71	63	58	73	65	59	54	54	49	45	44	41	38	34	32	30	26				
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22				
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19				
6	62	50	42	36	56	46	39	34	38	33	29	32	27	24	25	22	20	17				
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16686	16686	16686
5°	16811	16703	16641
10°	16771	16692	16645
15°	16682	16682	16667
20°	16572	16621	16621
25°	16416	16535	16484
30°	16216	16413	16341
35°	15974	16220	16106
40°	15711	15933	15772
45°	15425	15535	15295
50°	15022	15022	14781
55°	14544	14356	14141
60°	13843	13564	13348
65°	12795	12540	12428
70°	11203	11292	11249
75°	9015	9967	10028
80°	6408	8453	8544
85°	3896	7093	7093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.5
10°-20°	491.2	4.3
20°-30°	743.8	6.5
30°-40°	891.7	7.8
40°-50°	909.2	8.0
50°-60°	793.7	7.0
60°-70°	568.2	5.0
70°-80°	292.7	2.6
80°-90°	74.0	0.6
90°-100°	474.1	4.2
100°-110°	1349.1	11.8
110°-120°	1292.6	11.3
120°-130°	1023.0	9.0
130°-140°	821.1	7.2
140°-150°	642.8	5.6
150°-160°	470.4	4.1
160°-170°	291.4	2.6
170°-180°	98.9	0.9
0°-30°	1406.1	12.3
0°-40°	2297.8	20.2
0°-60°	4000.8	35.1
0°-90°	4935.7	43.3
90°-120°	3115.8	27.3
90°-150°	5602.8	49.2
90°-180°	6463.0	56.7
0°-180°	11399.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1815	1797	1804	1798	1797	172
15°	1746	1732	1746	1746	1745	492
25°	1613	1601	1624	1619	1619	742
35°	1418	1415	1440	1430	1430	887
45°	1182	1179	1191	1175	1172	910
55°	904	893	892	879	879	806
65°	586	573	574	569	569	580
75°	253	264	280	281	281	273
85°	37	56	67	69	67	50
90°	0	0	0	0	0	4
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1819.2	1803.5	1808.5	1804.3	1797.8
5°	1815.2	1797.2	1803.5	1798.4	1796.8
7.5°	1802.1	1784.1	1792.4	1789.0	1787.4
10°	1790.1	1772.1	1781.7	1778.3	1776.7
12.5°	1774.0	1757.3	1768.3	1764.9	1764.6
15°	1746.5	1731.8	1746.5	1746.5	1744.9
17.5°	1712.0	1698.6	1714.4	1715.4	1714.4
20°	1687.9	1673.2	1692.9	1691.3	1692.9
22.5°	1658.5	1646.3	1667.5	1663.2	1664.8
25°	1612.6	1601.1	1624.3	1619.3	1619.3
27.5°	1558.3	1550.1	1575.4	1570.0	1570.0
30°	1522.1	1514.0	1540.6	1533.9	1533.9
32.5°	1482.0	1476.4	1501.7	1493.7	1493.7
35°	1418.3	1415.0	1440.1	1430.0	1430.0
37.5°	1352.7	1349.7	1372.4	1360.3	1356.4
40°	1304.5	1302.8	1322.9	1309.5	1309.5
42.5°	1256.2	1254.6	1272.0	1255.9	1255.9
45°	1182.2	1178.9	1190.6	1175.4	1172.2
47.5°	1101.5	1098.2	1105.5	1089.1	1087.4
50°	1046.6	1043.3	1046.6	1031.5	1029.8
52.5°	990.3	984.4	985.0	969.9	969.6
55°	904.2	892.8	892.5	879.1	879.1
57.5°	813.1	798.1	799.4	788.0	786.4
60°	750.2	733.8	735.1	725.0	723.4
62.5°	688.6	669.6	673.5	662.1	661.8
65°	586.1	573.0	574.4	569.3	569.3
67.5°	487.6	475.5	484.3	480.2	479.9
70°	415.3	407.1	418.6	418.6	417.0
72.5°	348.3	348.0	362.4	362.4	363.4
75°	252.9	264.3	279.6	281.3	281.3
77.5°	168.8	189.1	206.0	206.6	206.3
80°	120.6	143.5	159.1	162.4	160.8
82.5°	81.7	105.9	118.9	122.2	120.6
85°	36.8	56.5	67.0	68.6	67.0
87.5°	10.7	22.5	26.8	26.7	24.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)