

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: P562763

Luminaire Tested: **SQ4-PC3-075U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562763
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

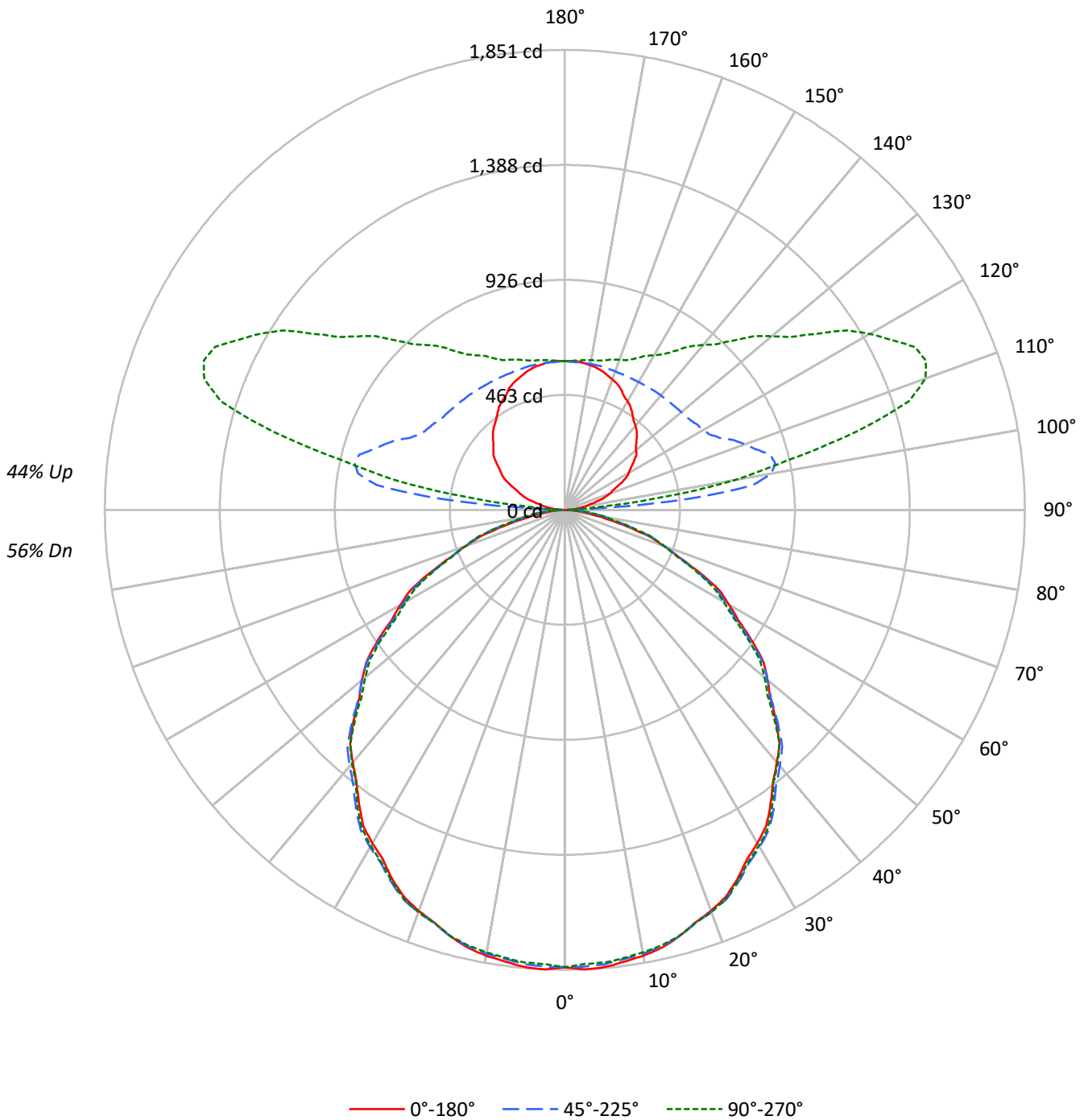
Lumens per Lamp: N/A
Luminaire Lumens: 8926.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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



TEST NUMBER: P562763
CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562763

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-6

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11005	10927
40°	10659	10810	10700
45°	10465	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7600	7661	7631
75°	6115	6763	6804
80°	4346	5735	5795
85°	2646	4813	4813



TEST NUMBER: P562763

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	2.0
10°-20°	499.9	5.6
20°-30°	757.0	8.5
30°-40°	907.5	10.2
40°-50°	925.3	10.4
50°-60°	807.8	9.0
60°-70°	578.3	6.5
70°-80°	297.9	3.3
80°-90°	76.9	0.9
90°-100°	282.5	3.2
100°-110°	777.2	8.7
110°-120°	802.2	9.0
120°-130°	642.7	7.2
130°-140°	504.8	5.7
140°-150°	386.9	4.3
150°-160°	278.2	3.1
160°-170°	170.1	1.9
170°-180°	57.3	0.6
0°-30°	1431.0	16.0
0°-40°	2338.5	26.2
0°-60°	4071.6	45.6
0°-90°	5024.6	56.3
90°-120°	1861.9	20.9
90°-150°	3396.4	38.0
90°-180°	3902.0	43.7
0°-180°	8926.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1847	1829	1835	1830	1829	175
15°	1777	1762	1777	1777	1776	501
25°	1641	1629	1653	1648	1648	755
35°	1443	1440	1466	1455	1455	903
45°	1203	1200	1212	1196	1193	926
55°	920	909	908	895	895	820
65°	596	583	584	579	579	590
75°	257	269	285	286	286	278
85°	38	58	68	70	68	51
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

TEST NUMBER: P562763

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.5	1840.5	1840.5	1840.5	1840.5
2.5°	1851.4	1835.4	1840.5	1836.2	1829.6
5°	1847.3	1829.0	1835.4	1830.2	1828.6
7.5°	1834.0	1815.7	1824.1	1820.7	1819.0
10°	1821.7	1803.4	1813.2	1809.8	1808.1
12.5°	1805.4	1788.4	1799.6	1796.2	1795.8
15°	1777.4	1762.4	1777.4	1777.4	1775.7
17.5°	1742.3	1728.7	1744.7	1745.7	1744.7
20°	1717.8	1702.8	1722.9	1721.2	1722.9
22.5°	1687.8	1675.5	1697.0	1692.6	1694.3
25°	1641.1	1629.4	1653.0	1647.9	1647.9
27.5°	1585.9	1577.6	1603.3	1597.8	1597.8
30°	1549.1	1540.7	1567.8	1561.0	1561.0
32.5°	1508.2	1502.5	1528.3	1520.1	1520.1
35°	1443.4	1440.1	1465.6	1455.3	1455.3
37.5°	1376.6	1373.6	1396.7	1384.4	1380.4
40°	1327.5	1325.9	1346.3	1332.6	1332.6
42.5°	1278.5	1276.8	1294.5	1278.1	1278.1
45°	1203.1	1199.8	1211.7	1196.2	1192.9
47.5°	1121.0	1117.7	1125.1	1108.3	1106.7
50°	1065.1	1061.8	1065.1	1049.7	1048.1
52.5°	1007.8	1001.8	1002.4	987.0	986.7
55°	920.2	908.6	908.3	894.7	894.7
57.5°	827.5	812.2	813.6	801.9	800.3
60°	763.5	746.8	748.1	737.9	736.2
62.5°	700.7	681.4	685.4	673.8	673.5
65°	596.5	583.1	584.5	579.4	579.4
67.5°	496.2	483.9	492.8	488.7	488.4
70°	422.6	414.3	426.0	426.0	424.3
72.5°	354.5	354.1	368.8	368.8	369.8
75°	257.3	269.0	284.6	286.3	286.3
77.5°	171.8	192.4	209.6	210.3	210.0
80°	122.7	146.0	161.9	165.3	163.6
82.5°	83.2	107.8	121.0	124.4	122.7
85°	37.5	57.5	68.2	69.8	68.2
87.5°	11.2	23.9	29.1	29.5	26.8
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

TEST NUMBER: P562763

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)