

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: P561560

Luminaire Tested: **SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561560  
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-PC3-075U-125D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

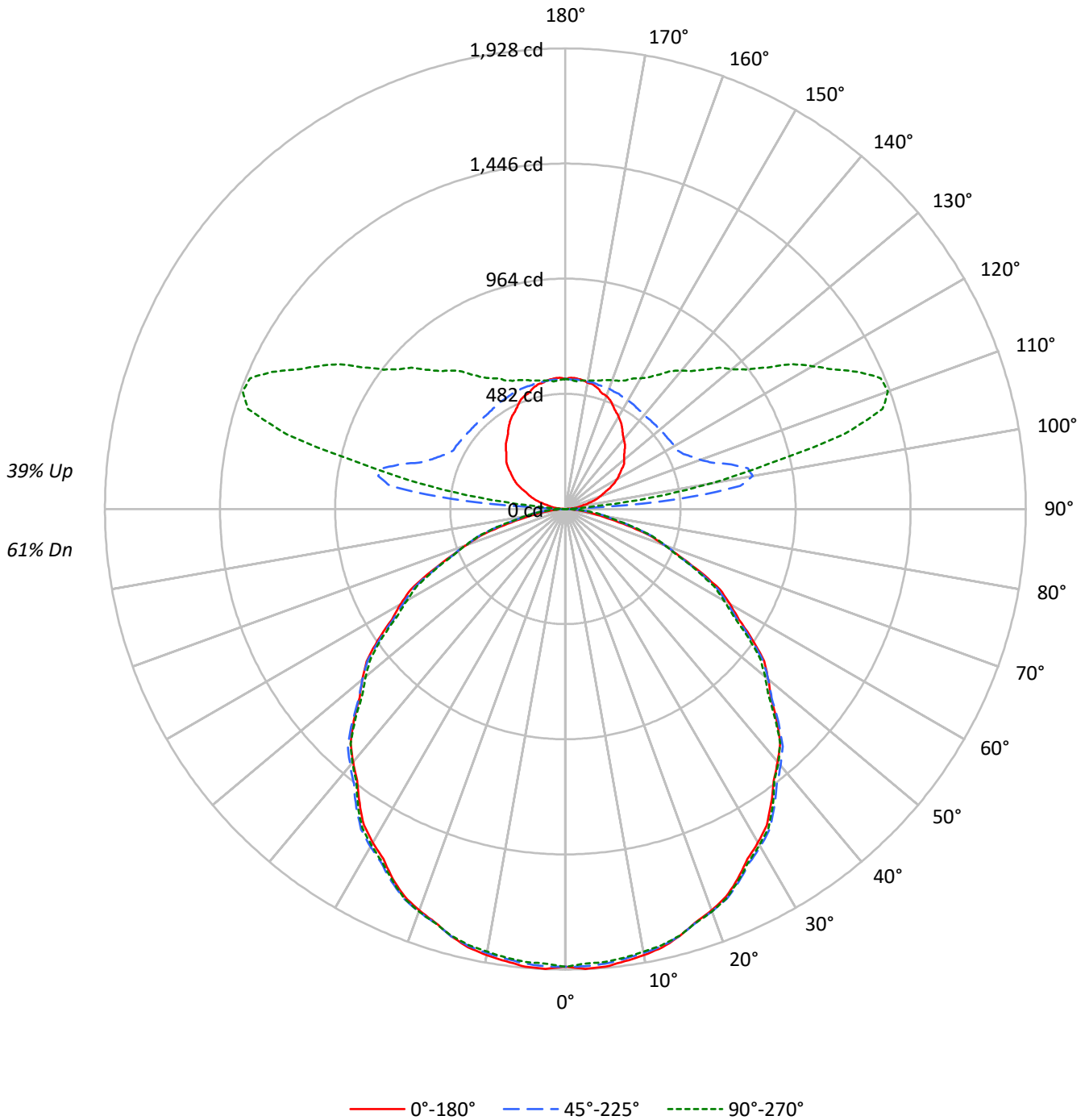
Lumens per Lamp: N/A  
Luminaire Lumens: 8610.4 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 79.4  
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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17679	17679	17679
5°	17813	17698	17632
10°	17769	17686	17636
15°	17675	17675	17659
20°	17559	17612	17612
25°	17394	17520	17466
30°	17182	17390	17314
35°	16926	17185	17066
40°	16646	16882	16711
45°	16344	16460	16205
50°	15917	15917	15662
55°	15411	15212	14984
60°	14668	14373	14144
65°	13557	13286	13168
70°	11869	11966	11918
75°	9550	10562	10626
80°	6785	8958	9048
85°	4128	7516	7516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.3	2.1
10°-20°	520.4	6.0
20°-30°	788.1	9.2
30°-40°	944.8	11.0
40°-50°	963.4	11.2
50°-60°	841.0	9.8
60°-70°	602.1	7.0
70°-80°	310.1	3.6
80°-90°	78.4	0.9
90°-100°	248.0	2.9
100°-110°	705.7	8.2
110°-120°	676.1	7.9
120°-130°	535.1	6.2
130°-140°	429.5	5.0
140°-150°	336.2	3.9
150°-160°	246.0	2.9
160°-170°	152.4	1.8
170°-180°	51.7	0.6
0°-30°	1489.9	17.3
0°-40°	2434.7	28.3
0°-60°	4239.0	49.2
0°-90°	5229.6	60.7
90°-120°	1629.8	18.9
90°-150°	2930.6	34.0
90°-180°	3381.0	39.3
0°-180°	8610.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1923	1904	1911	1906	1904	183
15°	1850	1835	1850	1850	1849	522
25°	1709	1696	1721	1716	1716	786
35°	1503	1499	1526	1515	1515	940
45°	1253	1249	1262	1245	1242	964
55°	958	946	946	932	932	854
65°	621	607	609	603	603	614
75°	268	280	296	298	298	289
85°	39	60	71	73	71	53
90°	0	0	0	0	0	3
95°	27	107	480	166	102	31
105°	110	166	719	1270	1208	116
115°	204	246	545	1155	1356	201
125°	288	319	520	864	1033	257
135°	352	381	514	730	825	271
145°	415	436	518	631	688	259
155°	474	485	531	571	594	219
165°	524	526	537	549	557	147
175°	548	545	543	540	536	52
180°	544	544	544	544	544	

TEST NUMBER: P561560

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1916.2	1916.2	1916.2	1916.2	1916.2
2.5°	1927.5	1910.9	1916.2	1911.8	1904.8
5°	1923.3	1904.2	1910.9	1905.5	1903.8
7.5°	1909.4	1890.4	1899.2	1895.6	1893.8
10°	1896.7	1877.6	1887.8	1884.2	1882.5
12.5°	1879.6	1861.9	1873.6	1870.0	1869.7
15°	1850.5	1834.9	1850.5	1850.5	1848.8
17.5°	1814.0	1799.8	1816.5	1817.5	1816.5
20°	1788.4	1772.8	1793.8	1792.0	1793.8
22.5°	1757.2	1744.4	1766.8	1762.2	1764.0
25°	1708.6	1696.5	1721.0	1715.7	1715.7
27.5°	1651.1	1642.4	1669.2	1663.5	1663.5
30°	1612.8	1604.1	1632.3	1625.2	1625.2
32.5°	1570.2	1564.3	1591.1	1582.6	1582.6
35°	1502.8	1499.3	1525.8	1515.2	1515.2
37.5°	1433.2	1430.1	1454.2	1441.3	1437.1
40°	1382.1	1380.4	1401.7	1387.5	1387.5
42.5°	1331.0	1329.3	1347.7	1330.7	1330.7
45°	1252.6	1249.1	1261.5	1245.4	1242.0
47.5°	1167.1	1163.6	1171.4	1153.9	1152.2
50°	1108.9	1105.4	1108.9	1092.9	1091.2
52.5°	1049.3	1043.0	1043.6	1027.6	1027.3
55°	958.1	945.9	945.7	931.5	931.5
57.5°	861.6	845.6	847.0	834.9	833.2
60°	794.9	777.5	778.9	768.2	766.5
62.5°	729.6	709.4	713.6	701.5	701.2
65°	621.0	607.1	608.6	603.2	603.2
67.5°	516.7	503.8	513.1	508.8	508.5
70°	440.0	431.3	443.6	443.5	441.8
72.5°	369.0	368.7	383.9	384.0	385.0
75°	267.9	280.1	296.3	298.1	298.1
77.5°	178.8	200.4	218.2	218.9	218.6
80°	127.7	152.0	168.6	172.1	170.3
82.5°	86.6	112.3	126.0	129.5	127.7
85°	39.0	59.9	71.0	72.7	71.0
87.5°	11.4	23.8	28.4	28.3	25.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.3	43.9	101.8	29.6	22.3
95°	26.9	106.8	480.1	166.2	102.4
97.5°	49.5	125.1	739.4	529.1	362.6
100°	65.2	136.0	795.7	806.0	620.8
102.5°	82.6	147.7	783.3	1031.7	870.0
105°	109.7	166.3	719.1	1270.2	1207.5
107.5°	137.2	188.0	644.2	1337.5	1393.4
110°	156.2	203.8	601.2	1311.8	1437.2

TEST NUMBER: P561560

CATALOG NUMBER: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	174.5	219.6	572.2	1250.9	1429.8
115°	203.8	246.3	545.3	1155.2	1356.5
117.5°	229.7	269.6	529.4	1050.5	1263.8
120°	250.4	283.8	527.7	990.7	1195.1
122.5°	267.0	300.3	523.6	938.3	1128.1
125°	287.7	319.0	520.5	863.7	1032.7
127.5°	310.2	339.5	518.8	819.1	958.4
130°	321.8	351.1	516.3	788.1	909.5
132.5°	334.2	362.7	516.3	763.9	875.6
135°	351.8	381.1	514.3	729.6	824.7
137.5°	368.4	396.9	514.0	700.5	782.7
140°	380.8	410.1	513.2	676.4	755.3
142.5°	394.8	419.3	515.7	657.2	728.0
145°	414.9	436.2	518.4	631.4	688.1
147.5°	432.1	452.7	522.9	605.4	654.4
150°	447.0	461.2	524.6	596.8	631.2
152.5°	458.6	473.6	526.3	585.1	617.1
155°	473.9	485.0	530.8	570.7	593.9
157.5°	492.9	499.6	531.8	564.1	580.7
160°	502.9	507.9	536.0	559.1	573.2
162.5°	508.7	514.5	536.8	554.9	565.8
165°	523.6	525.6	537.0	548.6	556.7
167.5°	533.7	531.9	541.8	547.0	550.3
170°	537.0	536.0	540.1	541.3	545.3
172.5°	544.5	541.0	542.6	539.6	542.8
175°	548.4	545.4	543.2	540.0	536.0
177.5°	550.1	545.2	542.6	539.3	540.1
180°	544.3	544.3	544.3	544.3	544.3

(END OF REPORT)