

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: P561612

Luminaire Tested: **SQ4-PC3-0U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561612  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

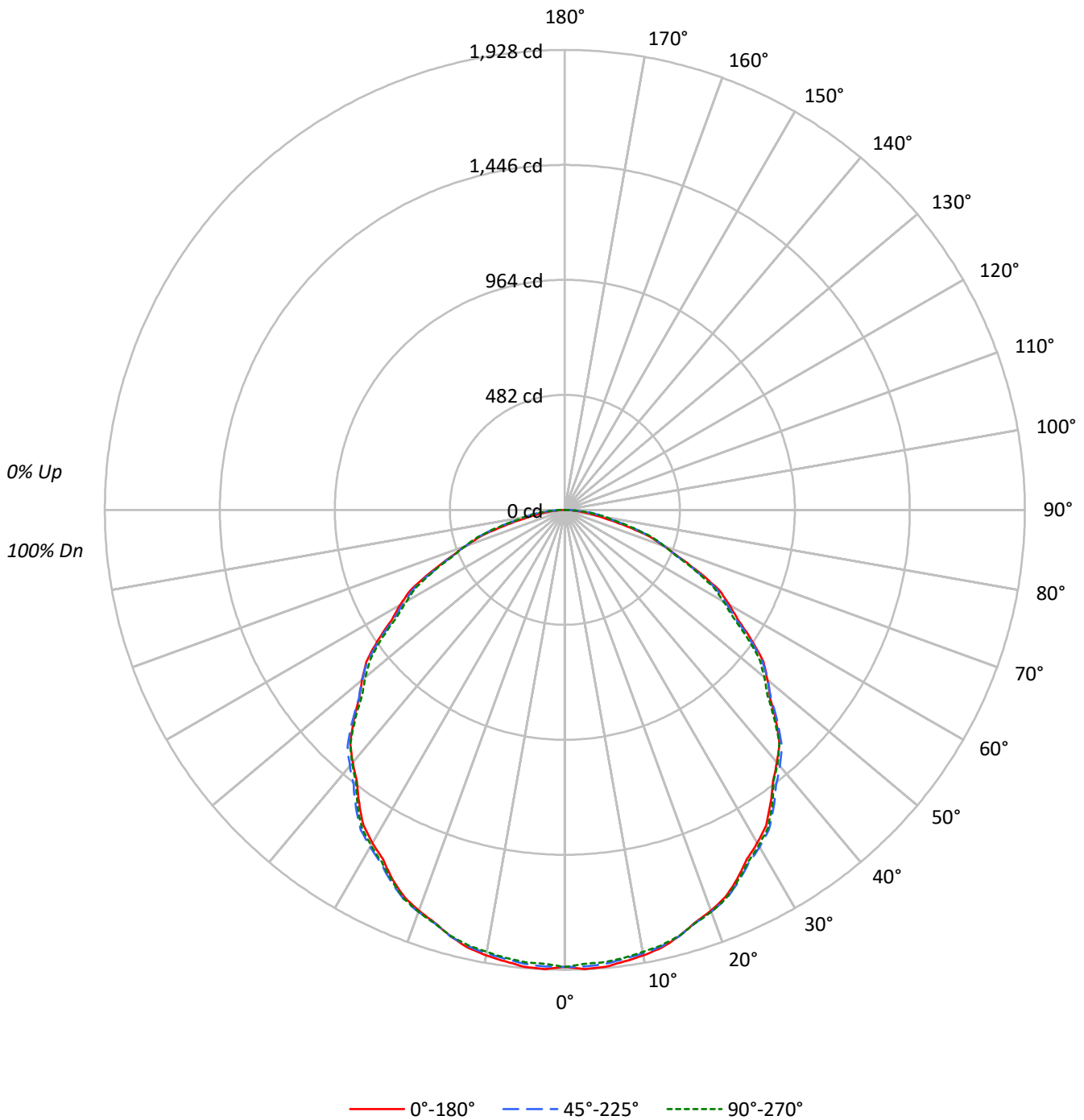
Lumens per Lamp: N/A  
Luminaire Lumens: 5229.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.7  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**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	3.5
10°-20°	520.4	10.0
20°-30°	788.1	15.1
30°-40°	944.8	18.1
40°-50°	963.4	18.4
50°-60°	841.0	16.1
60°-70°	602.1	11.5
70°-80°	310.1	5.9
80°-90°	78.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1489.9	28.5
0°-40°	2434.7	46.6
0°-60°	4239.0	81.1
0°-90°	5229.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5229.6	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	55
90°	0	0	0	0	0	



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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

(END OF REPORT)