

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: P562847

Luminaire Tested: **SQ4-PC3-0U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562847  
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-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

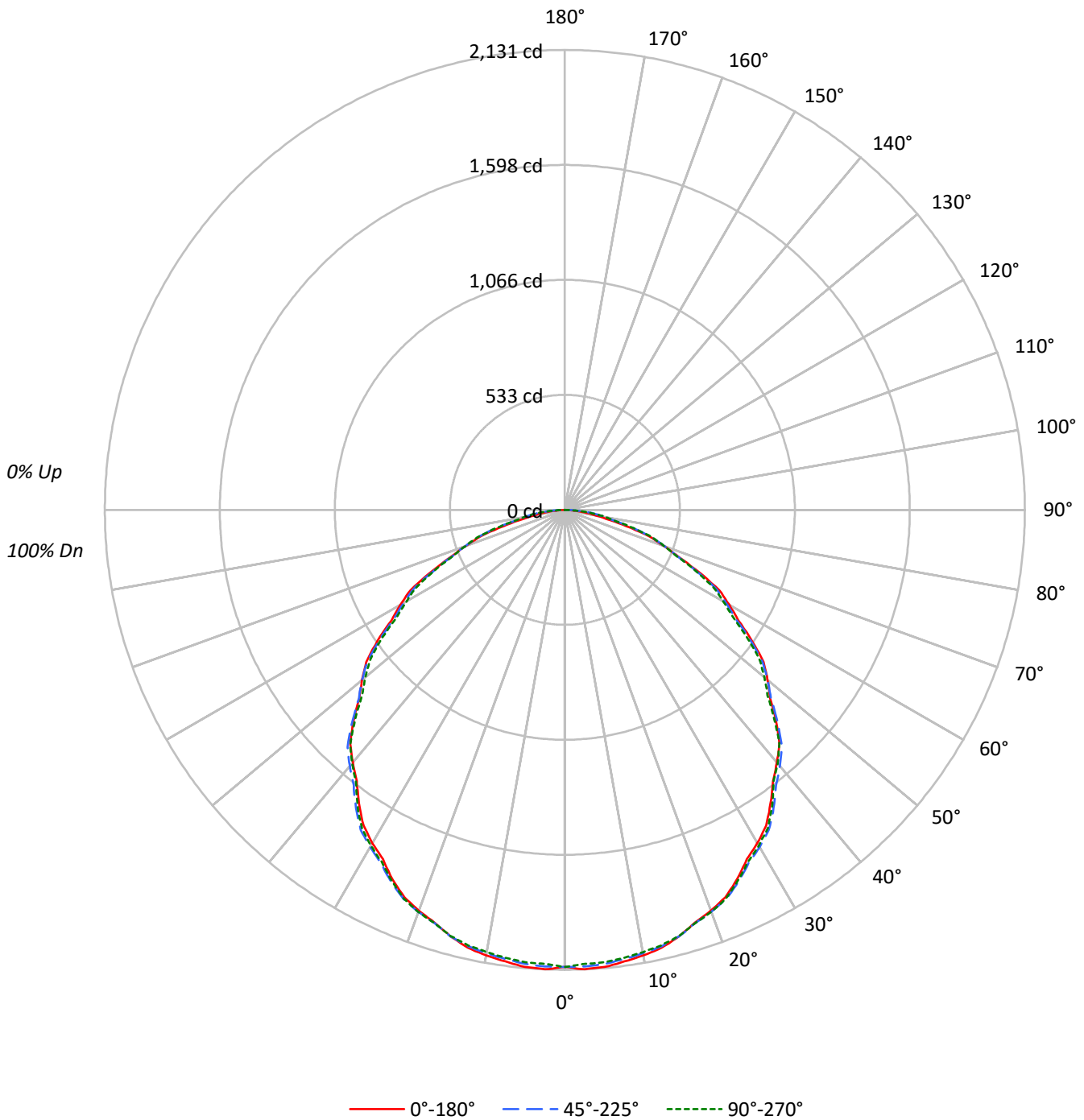
Lumens per Lamp: N/A  
Luminaire Lumens: 5781.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12912	12872
30°	12662	12815	12759
35°	12474	12665	12576
40°	12267	12441	12315
45°	12045	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8783
75°	7039	7783	7831
80°	5001	6599	6670
85°	3042	5540	5540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.5	3.5
10°-20°	575.3	10.0
20°-30°	871.2	15.1
30°-40°	1044.4	18.1
40°-50°	1065.0	18.4
50°-60°	929.6	16.1
60°-70°	665.5	11.5
70°-80°	342.8	5.9
80°-90°	86.7	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°	1646.9	28.5
0°-40°	2691.3	46.6
0°-60°	4685.9	81.1
0°-90°	5781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5781.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2126	2105	2112	2106	2104	202
15°	2046	2028	2046	2046	2044	577
25°	1889	1875	1902	1897	1897	869
35°	1661	1657	1687	1675	1675	1039
45°	1385	1381	1394	1377	1373	1066
55°	1059	1046	1045	1030	1030	944
65°	686	671	673	667	667	679
75°	296	310	328	330	330	320
85°	43	66	78	80	78	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	2130.7	2112.3	2118.2	2113.3	2105.6
5°	2126.0	2104.9	2112.3	2106.4	2104.5
7.5°	2110.7	2089.6	2099.4	2095.4	2093.5
10°	2096.6	2075.5	2086.8	2082.8	2080.9
12.5°	2077.8	2058.2	2071.1	2067.2	2066.8
15°	2045.6	2028.4	2045.6	2045.6	2043.7
17.5°	2005.2	1989.5	2008.0	2009.1	2008.0
20°	1977.0	1959.7	1982.9	1980.9	1982.9
22.5°	1942.5	1928.3	1953.1	1948.0	1949.9
25°	1888.7	1875.3	1902.5	1896.6	1896.6
27.5°	1825.2	1815.6	1845.2	1838.9	1838.9
30°	1782.8	1773.2	1804.4	1796.5	1796.5
32.5°	1735.7	1729.2	1758.9	1749.5	1749.5
35°	1661.2	1657.4	1686.7	1674.9	1674.9
37.5°	1584.3	1580.9	1607.5	1593.2	1588.6
40°	1527.8	1525.9	1549.4	1533.7	1533.7
42.5°	1471.4	1469.4	1489.8	1471.0	1471.0
45°	1384.7	1380.8	1394.5	1376.7	1372.9
47.5°	1290.1	1286.3	1294.8	1275.6	1273.7
50°	1225.8	1222.0	1225.8	1208.1	1206.2
52.5°	1159.9	1153.0	1153.6	1136.0	1135.6
55°	1059.1	1045.7	1045.4	1029.7	1029.7
57.5°	952.4	934.8	936.3	922.9	921.0
60°	878.7	859.5	861.0	849.2	847.3
62.5°	806.5	784.2	788.8	775.5	775.1
65°	686.5	671.1	672.7	666.8	666.8
67.5°	571.1	556.9	567.2	562.5	562.1
70°	486.4	476.8	490.3	490.3	488.4
72.5°	407.9	407.6	424.4	424.4	425.6
75°	296.2	309.6	327.5	329.5	329.5
77.5°	197.7	221.5	241.2	242.0	241.6
80°	141.2	168.1	186.3	190.2	188.3
82.5°	95.7	124.1	139.3	143.1	141.2
85°	43.1	66.2	78.5	80.4	78.5
87.5°	12.6	26.4	31.4	31.3	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)