

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: P562833

Luminaire Tested: **SQ4-PC3-0U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562833
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-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

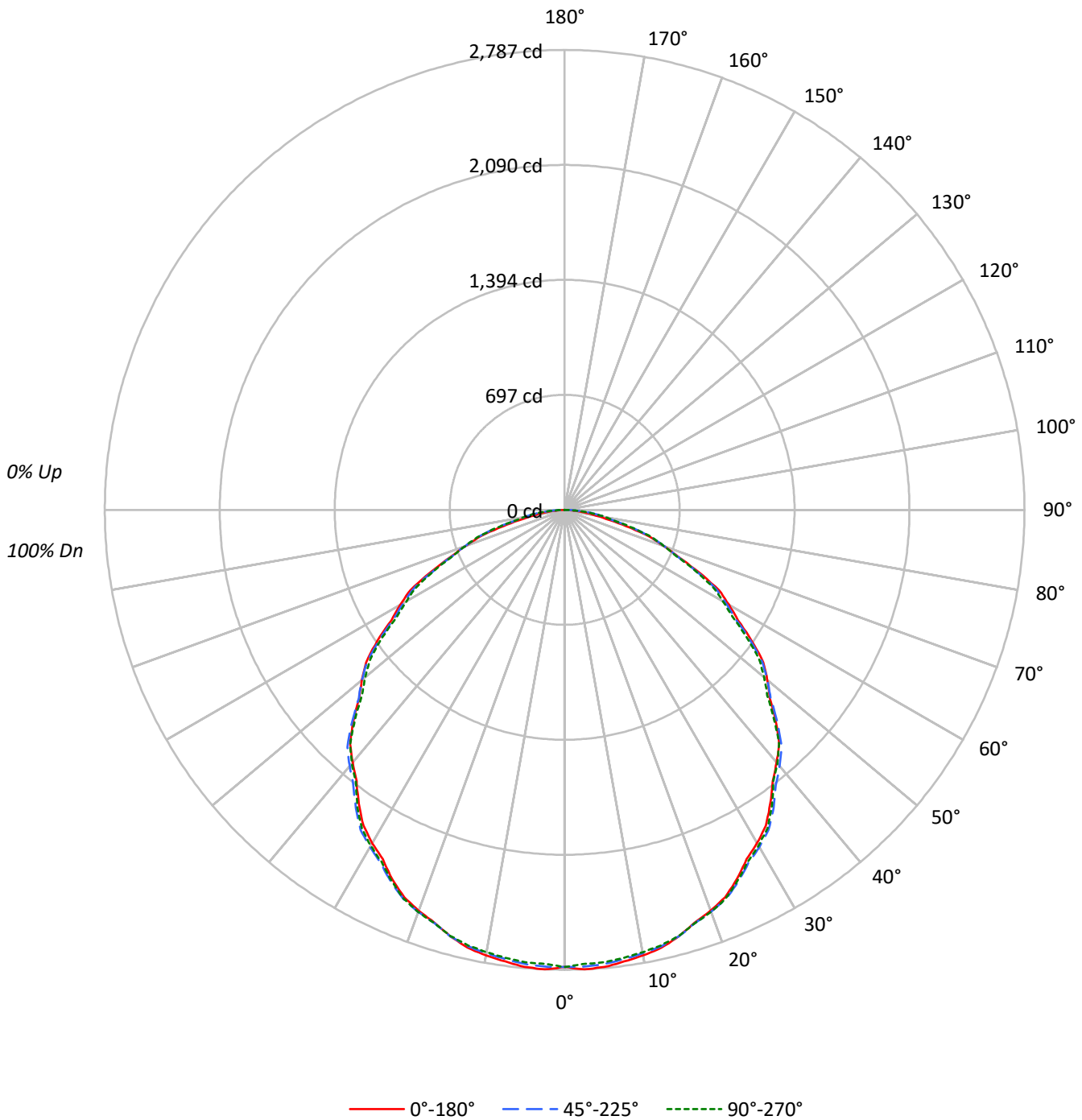
Lumens per Lamp: N/A
Luminaire Lumens: 7560.8 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	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°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8380	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7069	6926	6816
65°	6533	6402	6346
70°	5721	5766	5743
75°	4602	5090	5120
80°	3271	4316	4362
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	3.5
10°-20°	752.4	10.0
20°-30°	1139.4	15.1
30°-40°	1366.0	18.1
40°-50°	1392.8	18.4
50°-60°	1215.9	16.1
60°-70°	870.4	11.5
70°-80°	448.3	5.9
80°-90°	113.4	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°	2154.0	28.5
0°-40°	3520.0	46.6
0°-60°	6128.7	81.1
0°-90°	7560.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7560.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2770	2770	2770	2770	2770	
5°	2781	2753	2763	2755	2752	264
15°	2675	2653	2675	2675	2673	754
25°	2470	2453	2488	2480	2480	1137
35°	2173	2168	2206	2191	2191	1359
45°	1811	1806	1824	1801	1796	1394
55°	1385	1368	1367	1347	1347	1235
65°	898	878	880	872	872	888
75°	387	405	428	431	431	419
85°	56	86	103	105	103	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2770.3	2770.3	2770.3	2770.3	2770.3
2.5°	2786.8	2762.7	2770.3	2764.0	2753.9
5°	2780.6	2753.0	2762.6	2754.9	2752.4
7.5°	2760.6	2733.0	2745.7	2740.5	2738.0
10°	2742.1	2714.5	2729.3	2724.1	2721.6
12.5°	2717.5	2691.9	2708.8	2703.6	2703.1
15°	2675.4	2652.9	2675.4	2675.4	2672.9
17.5°	2622.6	2602.0	2626.2	2627.7	2626.2
20°	2585.7	2563.1	2593.3	2590.8	2593.3
22.5°	2540.5	2521.9	2554.4	2547.7	2550.3
25°	2470.2	2452.7	2488.2	2480.5	2480.5
27.5°	2387.1	2374.6	2413.3	2405.1	2405.1
30°	2331.7	2319.2	2359.9	2349.7	2349.7
32.5°	2270.1	2261.6	2300.4	2288.1	2288.1
35°	2172.7	2167.7	2206.0	2190.6	2190.6
37.5°	2072.1	2067.6	2102.4	2083.8	2077.8
40°	1998.2	1995.7	2026.5	2005.9	2005.9
42.5°	1924.4	1921.9	1948.5	1923.8	1923.8
45°	1811.0	1806.0	1823.8	1800.6	1795.6
47.5°	1687.3	1682.3	1693.5	1668.3	1665.8
50°	1603.2	1598.2	1603.2	1580.1	1577.6
52.5°	1517.0	1508.0	1508.8	1485.7	1485.2
55°	1385.2	1367.6	1367.2	1346.7	1346.7
57.5°	1245.6	1222.6	1224.6	1207.1	1204.6
60°	1149.2	1124.1	1126.1	1110.6	1108.1
62.5°	1054.8	1025.7	1031.7	1014.2	1013.7
65°	897.8	877.7	879.8	872.1	872.1
67.5°	747.0	728.4	741.8	735.7	735.2
70°	636.2	623.6	641.3	641.2	638.7
72.5°	533.5	533.0	555.1	555.1	556.6
75°	387.3	404.9	428.4	430.9	430.9
77.5°	258.6	289.7	315.5	316.5	316.0
80°	184.7	219.8	243.7	248.8	246.3
82.5°	125.2	162.3	182.1	187.2	184.7
85°	56.4	86.5	102.6	105.1	102.6
87.5°	16.4	34.5	41.0	41.0	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)