

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: P562852

Luminaire Tested: **SQ4-PC3-0U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562852
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

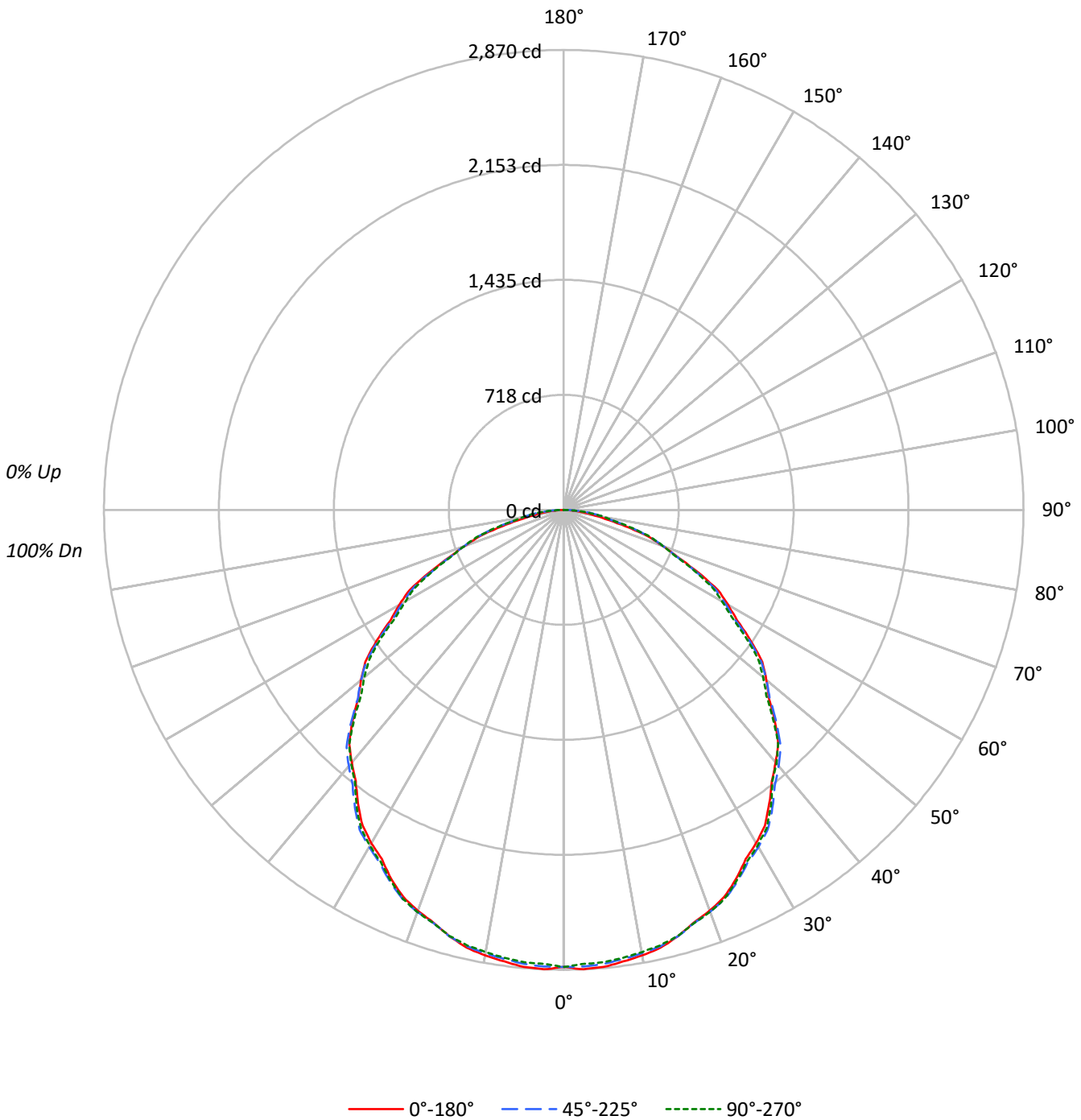
Lumens per Lamp: N/A
Luminaire Lumens: 7785.5 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 71.7
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°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13145
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12945	12888
35°	12599	12793	12703
40°	12391	12566	12438
45°	12166	12252	12063
50°	11848	11848	11658
55°	11471	11323	11153
60°	10917	10699	10528
65°	10091	9889	9803
70°	8836	8906	8871
75°	7108	7862	7908
80°	5053	6665	6737
85°	3075	5595	5595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	3.5
10°-20°	774.7	10.0
20°-30°	1173.3	15.1
30°-40°	1406.6	18.1
40°-50°	1434.2	18.4
50°-60°	1252.0	16.1
60°-70°	896.3	11.5
70°-80°	461.6	5.9
80°-90°	116.7	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°	2218.0	28.5
0°-40°	3624.6	46.6
0°-60°	6310.8	81.1
0°-90°	7785.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7785.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2863	2835	2845	2837	2834	272
15°	2755	2732	2755	2755	2752	777
25°	2544	2526	2562	2554	2554	1171
35°	2237	2232	2272	2256	2256	1399
45°	1865	1860	1878	1854	1849	1435
55°	1426	1408	1408	1387	1387	1271
65°	924	904	906	898	898	914
75°	399	417	441	444	444	431
85°	58	89	106	108	106	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.7	2852.7	2852.7	2852.7	2852.7
2.5°	2869.6	2844.8	2852.7	2846.1	2835.8
5°	2863.2	2834.8	2844.8	2836.8	2834.2
7.5°	2842.6	2814.2	2827.3	2822.0	2819.4
10°	2823.6	2795.2	2810.4	2805.1	2802.5
12.5°	2798.3	2771.9	2789.3	2784.0	2783.5
15°	2754.9	2731.7	2754.9	2754.9	2752.3
17.5°	2700.5	2679.4	2704.2	2705.8	2704.2
20°	2662.5	2639.3	2670.4	2667.8	2670.4
22.5°	2616.0	2596.9	2630.3	2623.5	2626.0
25°	2543.6	2525.6	2562.1	2554.2	2554.2
27.5°	2458.1	2445.1	2485.0	2476.5	2476.5
30°	2401.0	2388.1	2430.1	2419.5	2419.5
32.5°	2337.6	2328.8	2368.8	2356.1	2356.1
35°	2237.2	2232.1	2271.6	2255.7	2255.7
37.5°	2133.7	2129.0	2164.9	2145.7	2139.5
40°	2057.6	2055.0	2086.7	2065.5	2065.5
42.5°	1981.6	1979.0	2006.4	1981.0	1981.0
45°	1864.8	1859.6	1878.0	1854.1	1849.0
47.5°	1737.5	1732.3	1743.8	1717.9	1715.3
50°	1650.9	1645.7	1650.9	1627.0	1624.4
52.5°	1562.1	1552.8	1553.7	1529.9	1529.4
55°	1426.3	1408.3	1407.8	1386.7	1386.7
57.5°	1282.6	1258.9	1261.0	1243.0	1240.4
60°	1183.3	1157.5	1159.6	1143.7	1141.1
62.5°	1086.1	1056.2	1062.4	1044.4	1043.9
65°	924.5	903.8	906.0	898.1	898.1
67.5°	769.2	750.1	763.9	757.5	757.0
70°	655.1	642.1	660.3	660.3	657.7
72.5°	549.4	548.9	571.6	571.6	573.2
75°	398.8	416.9	441.1	443.7	443.7
77.5°	266.2	298.3	324.9	325.9	325.4
80°	190.2	226.3	250.9	256.2	253.6
82.5°	128.9	167.1	187.5	192.8	190.2
85°	58.1	89.1	105.7	108.2	105.7
87.5°	16.9	35.5	42.3	42.2	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)