

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: P562817

Luminaire Tested: **SQ4-PC3-0U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562817
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-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

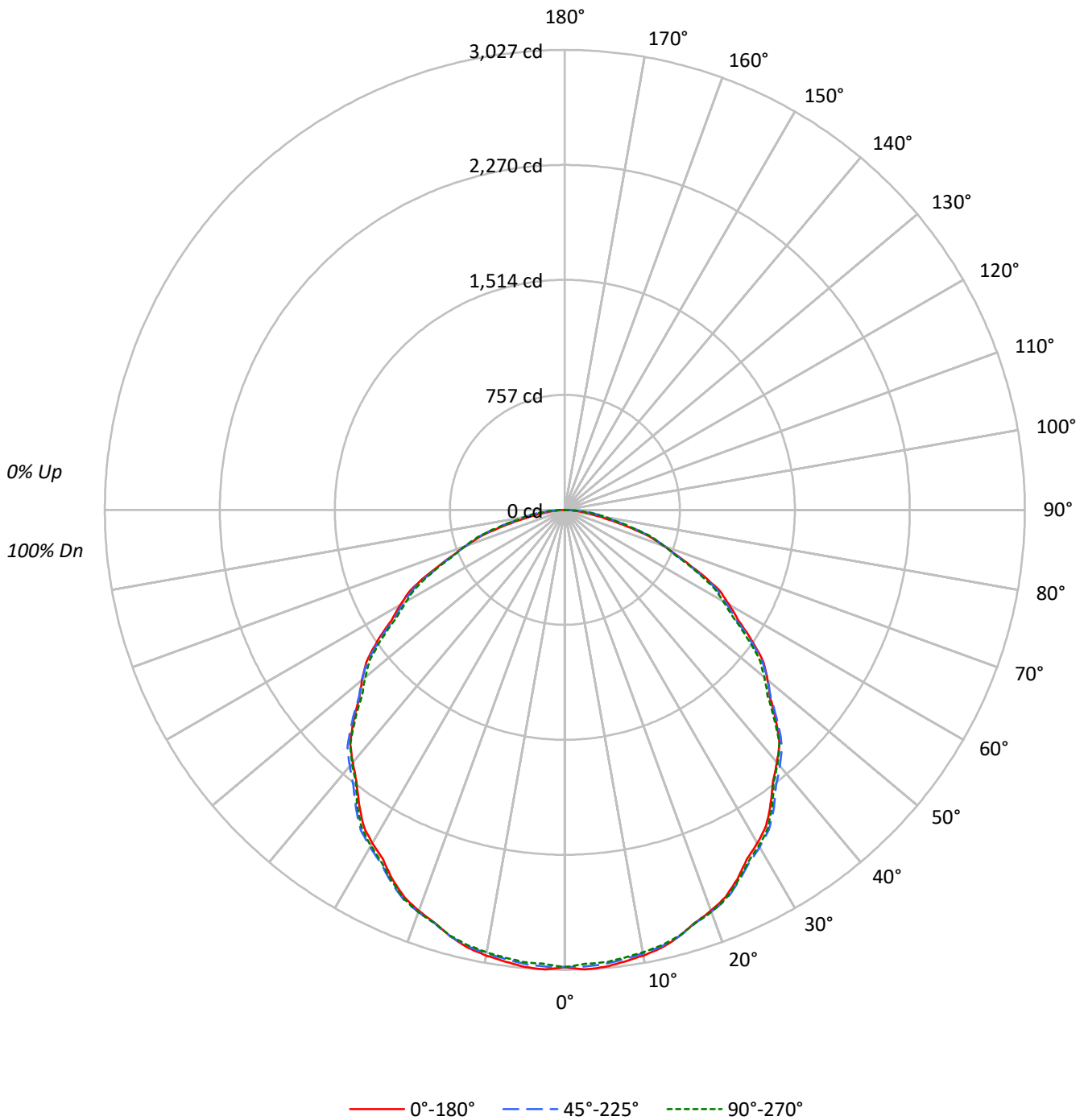
Lumens per Lamp: N/A
Luminaire Lumens: 8213.4 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	9255	9255	9255
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9064
35°	8861	8997	8934
40°	8715	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7963	7844
60°	7679	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5530	5562
80°	3553	4688	4738
85°	2163	3934	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	3.5
10°-20°	817.3	10.0
20°-30°	1237.7	15.1
30°-40°	1483.9	18.1
40°-50°	1513.1	18.4
50°-60°	1320.8	16.1
60°-70°	945.6	11.5
70°-80°	487.0	5.9
80°-90°	123.2	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°	2339.9	28.5
0°-40°	3823.8	46.6
0°-60°	6657.7	81.1
0°-90°	8213.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8213.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3021	2991	3001	2993	2990	287
15°	2906	2882	2906	2906	2904	819
25°	2683	2664	2703	2695	2695	1235
35°	2360	2355	2396	2380	2380	1476
45°	1967	1962	1981	1956	1951	1514
55°	1505	1486	1485	1463	1463	1341
65°	975	954	956	947	947	965
75°	421	440	465	468	468	455
85°	61	94	112	114	112	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3009.5	3009.5	3009.5	3009.5	3009.5
2.5°	3027.3	3001.1	3009.5	3002.5	2991.6
5°	3020.6	2990.6	3001.1	2992.7	2990.0
7.5°	2998.9	2968.9	2982.7	2977.1	2974.4
10°	2978.8	2948.8	2964.9	2959.2	2956.5
12.5°	2952.1	2924.3	2942.6	2937.0	2936.5
15°	2906.4	2881.8	2906.4	2906.3	2903.6
17.5°	2849.0	2826.6	2852.9	2854.5	2852.9
20°	2808.8	2784.3	2817.2	2814.5	2817.2
22.5°	2759.8	2739.6	2774.8	2767.7	2770.4
25°	2683.4	2664.4	2702.9	2694.6	2694.6
27.5°	2593.2	2579.5	2621.6	2612.7	2612.7
30°	2533.0	2519.3	2563.6	2552.5	2552.5
32.5°	2466.1	2456.8	2499.0	2485.6	2485.6
35°	2360.2	2354.8	2396.4	2379.7	2379.7
37.5°	2251.0	2246.1	2283.9	2263.6	2257.1
40°	2170.7	2168.0	2201.4	2179.1	2179.1
42.5°	2090.5	2087.7	2116.7	2089.9	2089.9
45°	1967.3	1961.9	1981.2	1956.0	1950.6
47.5°	1833.0	1827.5	1839.7	1812.3	1809.6
50°	1741.6	1736.1	1741.6	1716.5	1713.7
52.5°	1648.0	1638.2	1639.0	1614.0	1613.4
55°	1504.7	1485.7	1485.2	1462.9	1462.9
57.5°	1353.1	1328.1	1330.3	1311.3	1308.6
60°	1248.4	1221.1	1223.3	1206.5	1203.8
62.5°	1145.8	1114.2	1120.7	1101.8	1101.2
65°	975.3	953.5	955.8	947.4	947.4
67.5°	811.4	791.3	805.9	799.2	798.6
70°	691.1	677.4	696.6	696.6	693.8
72.5°	579.6	579.1	603.0	603.0	604.7
75°	420.8	439.8	465.4	468.1	468.1
77.5°	280.9	314.7	342.7	343.8	343.3
80°	200.6	238.8	264.7	270.2	267.5
82.5°	136.0	176.3	197.8	203.4	200.6
85°	61.3	94.0	111.5	114.2	111.5
87.5°	17.8	37.5	44.6	44.5	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)