

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: P562884

Luminaire Tested: **SQ4-PC3-0U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562884
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

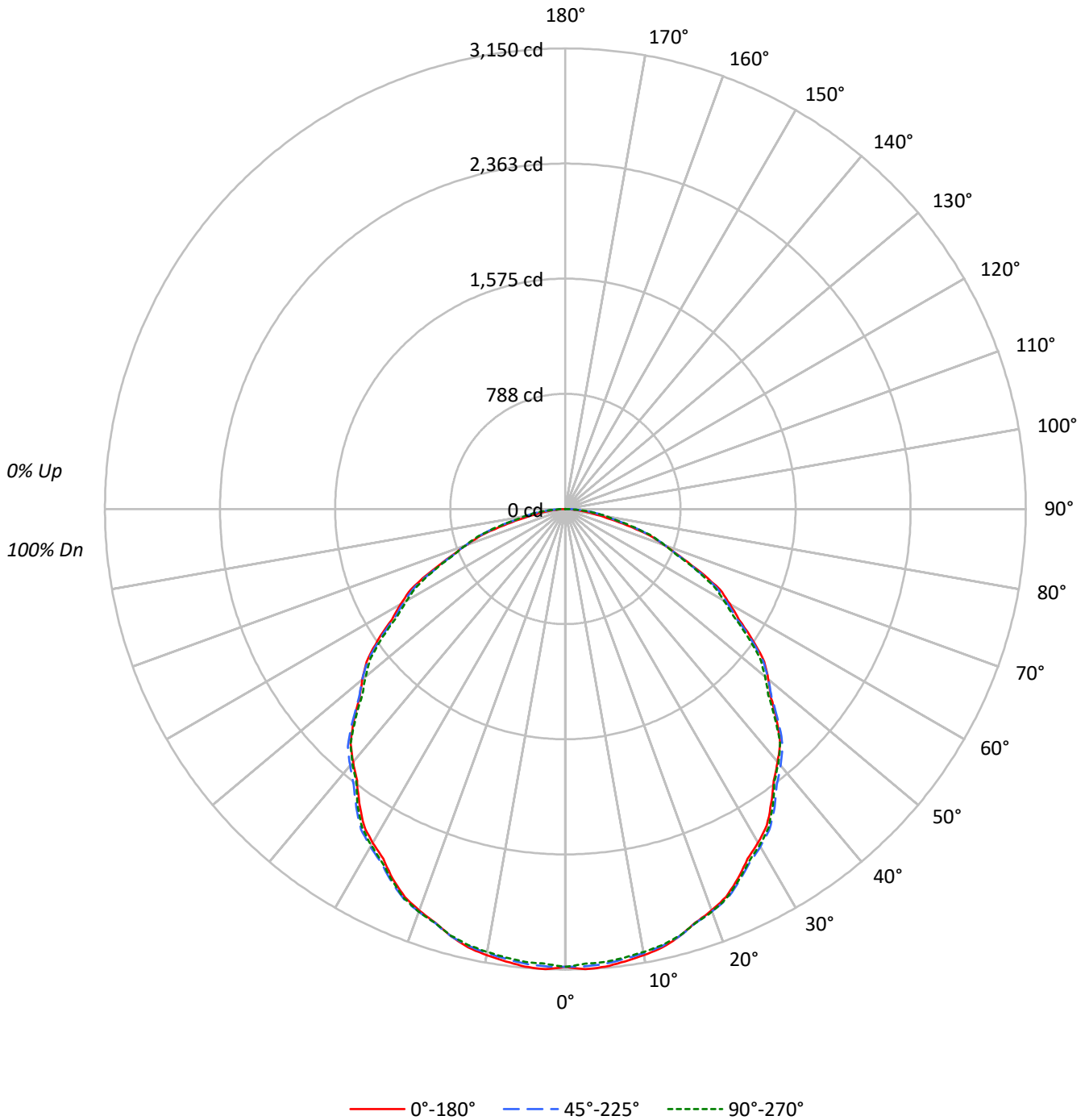
Lumens per Lamp: N/A
Luminaire Lumens: 8546.8 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12243
60°	11985	11744	11557
65°	11078	10857	10762
70°	9699	9777	9738
75°	7803	8630	8682
80°	5547	7319	7396
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	3.5
10°-20°	850.5	10.0
20°-30°	1288.0	15.1
30°-40°	1544.1	18.1
40°-50°	1574.5	18.4
50°-60°	1374.4	16.1
60°-70°	984.0	11.5
70°-80°	506.8	5.9
80°-90°	128.2	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°	2434.8	28.5
0°-40°	3979.0	46.6
0°-60°	6927.8	81.1
0°-90°	8546.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8546.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3132	3132	3132	3132	3132	
5°	3143	3112	3123	3114	3111	298
15°	3024	2999	3024	3024	3021	853
25°	2792	2772	2813	2804	2804	1285
35°	2456	2450	2494	2476	2476	1536
45°	2047	2042	2062	2035	2030	1576
55°	1566	1546	1546	1522	1522	1396
65°	1015	992	995	986	986	1004
75°	438	458	484	487	487	473
85°	64	98	116	119	116	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3131.6	3131.6	3131.6	3131.6	3131.6
2.5°	3150.2	3122.9	3131.6	3124.4	3113.0
5°	3143.2	3112.0	3122.9	3114.1	3111.3
7.5°	3120.6	3089.4	3103.8	3097.9	3095.1
10°	3099.7	3068.5	3085.2	3079.3	3076.5
12.5°	3071.9	3043.0	3062.0	3056.2	3055.6
15°	3024.3	2998.8	3024.3	3024.3	3021.4
17.5°	2964.6	2941.3	2968.6	2970.3	2968.6
20°	2922.8	2897.3	2931.5	2928.7	2931.5
22.5°	2871.8	2850.8	2887.5	2880.0	2882.8
25°	2792.3	2772.5	2812.6	2803.9	2803.9
27.5°	2698.4	2684.2	2728.0	2718.7	2718.7
30°	2635.8	2621.6	2667.7	2656.1	2656.1
32.5°	2566.2	2556.5	2600.4	2586.5	2586.5
35°	2456.0	2450.3	2493.7	2476.3	2476.3
37.5°	2342.3	2337.2	2376.5	2355.5	2348.7
40°	2258.8	2256.0	2290.7	2267.5	2267.5
42.5°	2175.3	2172.5	2202.6	2174.7	2174.7
45°	2047.1	2041.5	2061.6	2035.4	2029.7
47.5°	1907.4	1901.7	1914.3	1885.9	1883.0
50°	1812.3	1806.6	1812.3	1786.1	1783.3
52.5°	1714.8	1704.6	1705.6	1679.5	1678.9
55°	1565.8	1546.0	1545.5	1522.3	1522.3
57.5°	1408.1	1382.0	1384.3	1364.5	1361.7
60°	1299.0	1270.7	1272.9	1255.5	1252.6
62.5°	1192.3	1159.4	1166.2	1146.5	1145.9
65°	1014.9	992.2	994.6	985.9	985.9
67.5°	844.4	823.4	838.6	831.6	831.0
70°	719.1	704.9	724.9	724.8	722.0
72.5°	603.1	602.6	627.5	627.5	629.2
75°	437.8	457.7	484.2	487.1	487.1
77.5°	292.3	327.4	356.7	357.8	357.2
80°	208.8	248.5	275.5	281.2	278.4
82.5°	141.5	183.5	205.9	211.6	208.8
85°	63.8	97.8	116.0	118.8	116.0
87.5°	18.6	39.0	46.4	46.3	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)