

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: P562888

Luminaire Tested: **SQ4-PC3-0U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562888
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

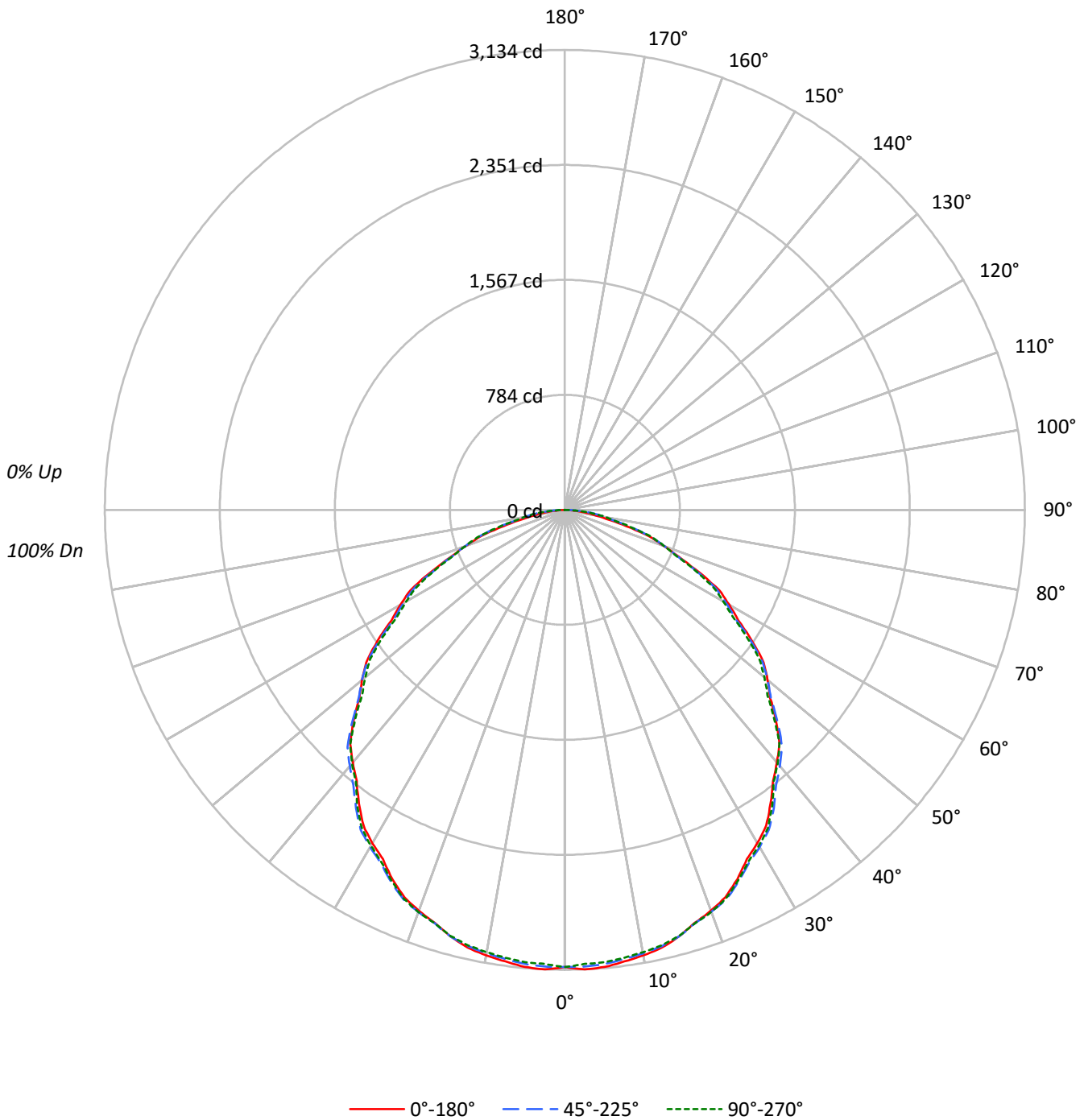
Lumens per Lamp: N/A
Luminaire Lumens: 8503.4 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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°	14373	14373	14373
5°	14481	14388	14334
10°	14446	14378	14338
15°	14370	14370	14357
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13874
40°	13533	13725	13586
45°	13287	13382	13174
50°	12940	12940	12733
55°	12530	12367	12181
60°	11924	11685	11499
65°	11021	10801	10707
70°	9651	9727	9688
75°	7764	8587	8639
80°	5518	7282	7359
85°	3361	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	3.5
10°-20°	846.2	10.0
20°-30°	1281.4	15.1
30°-40°	1536.3	18.1
40°-50°	1566.5	18.4
50°-60°	1367.4	16.1
60°-70°	979.0	11.5
70°-80°	504.2	5.9
80°-90°	127.5	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°	2422.5	28.5
0°-40°	3958.8	46.6
0°-60°	6892.7	81.1
0°-90°	8503.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8503.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3116	3116	3116	3116	3116	
5°	3127	3096	3107	3098	3096	297
15°	3009	2984	3009	3009	3006	848
25°	2778	2758	2798	2790	2790	1279
35°	2444	2438	2481	2464	2464	1528
45°	2037	2031	2051	2025	2019	1568
55°	1558	1538	1538	1515	1515	1389
65°	1010	987	990	981	981	999
75°	436	455	482	485	485	471
85°	64	97	115	118	115	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3115.7	3115.7	3115.7	3115.7	3115.7
2.5°	3134.2	3107.1	3115.7	3108.5	3097.2
5°	3127.2	3096.2	3107.0	3098.3	3095.5
7.5°	3104.7	3073.7	3088.0	3082.2	3079.4
10°	3084.0	3052.9	3069.5	3063.7	3060.9
12.5°	3056.3	3027.5	3046.5	3040.7	3040.1
15°	3009.0	2983.6	3009.0	3008.9	3006.1
17.5°	2949.5	2926.4	2953.6	2955.3	2953.6
20°	2908.0	2882.6	2916.6	2913.8	2916.6
22.5°	2857.2	2836.3	2872.8	2865.4	2868.2
25°	2778.2	2758.4	2798.4	2789.7	2789.7
27.5°	2684.7	2670.6	2714.1	2704.9	2704.9
30°	2622.4	2608.3	2654.1	2642.6	2642.6
32.5°	2553.1	2543.6	2587.2	2573.3	2573.3
35°	2443.5	2437.9	2481.0	2463.7	2463.7
37.5°	2330.4	2325.4	2364.5	2343.5	2336.8
40°	2247.3	2244.5	2279.1	2256.0	2256.0
42.5°	2164.3	2161.4	2191.4	2163.7	2163.7
45°	2036.7	2031.1	2051.2	2025.1	2019.4
47.5°	1897.7	1892.1	1904.6	1876.3	1873.5
50°	1803.1	1797.4	1803.1	1777.0	1774.2
52.5°	1706.1	1696.0	1696.9	1670.9	1670.4
55°	1557.9	1538.1	1537.7	1514.6	1514.6
57.5°	1400.9	1375.0	1377.3	1357.6	1354.8
60°	1292.4	1264.2	1266.5	1249.1	1246.3
62.5°	1186.3	1153.6	1160.3	1140.7	1140.1
65°	1009.7	987.2	989.5	980.9	980.9
67.5°	840.1	819.2	834.3	827.4	826.8
70°	715.5	701.4	721.2	721.2	718.3
72.5°	600.1	599.5	624.3	624.3	626.0
75°	435.6	455.4	481.8	484.7	484.7
77.5°	290.8	325.8	354.8	356.0	355.4
80°	207.7	247.2	274.1	279.8	277.0
82.5°	140.8	182.5	204.8	210.5	207.7
85°	63.5	97.3	115.4	118.2	115.4
87.5°	18.5	38.8	46.2	46.1	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)