

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: P562811

Luminaire Tested: **SQ4-PC3-0U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562811
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-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

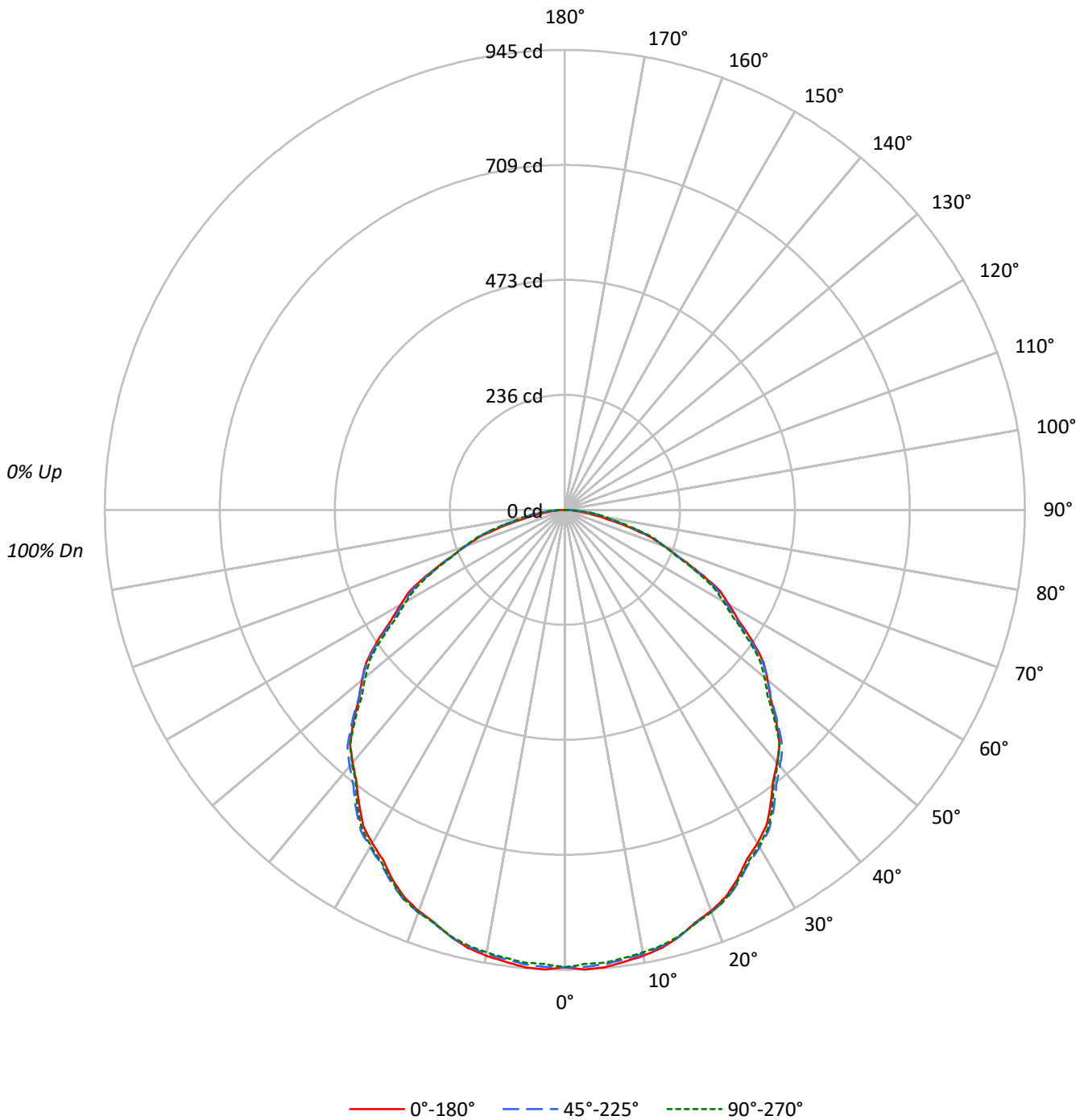
Lumens per Lamp: N/A
Luminaire Lumens: 2564.9 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5742	5759	5759
25°	5687	5729	5711
30°	5618	5686	5661
35°	5535	5620	5580
40°	5443	5520	5464
45°	5344	5382	5298
50°	5205	5205	5121
55°	5039	4974	4900
60°	4795	4699	4624
65°	4433	4344	4307
70°	3881	3911	3897
75°	3123	3453	3474
80°	2221	2929	2958
85°	1348	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	3.5
10°-20°	255.2	10.0
20°-30°	386.5	15.1
30°-40°	463.4	18.1
40°-50°	472.5	18.4
50°-60°	412.5	16.1
60°-70°	295.3	11.5
70°-80°	152.1	5.9
80°-90°	38.5	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°	730.7	28.5
0°-40°	1194.1	46.6
0°-60°	2079.1	81.1
0°-90°	2564.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2564.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	943	934	937	935	934	90
15°	908	900	908	908	907	256
25°	838	832	844	842	842	386
35°	737	735	748	743	743	461
45°	614	613	619	611	609	473
55°	470	464	464	457	457	419
65°	305	298	298	296	296	301
75°	131	137	145	146	146	142
85°	19	29	35	36	35	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.8	939.8	939.8	939.8	939.8
2.5°	945.4	937.2	939.8	937.6	934.2
5°	943.3	933.9	937.2	934.6	933.7
7.5°	936.5	927.1	931.5	929.7	928.8
10°	930.2	920.9	925.9	924.1	923.3
12.5°	921.9	913.2	918.9	917.2	917.0
15°	907.6	900.0	907.6	907.6	906.7
17.5°	889.7	882.7	890.9	891.4	890.9
20°	877.2	869.5	879.8	878.9	879.8
22.5°	861.8	855.5	866.5	864.3	865.1
25°	838.0	832.0	844.1	841.5	841.5
27.5°	809.8	805.5	818.7	815.9	815.9
30°	791.0	786.8	800.6	797.1	797.1
32.5°	770.1	767.2	780.4	776.2	776.2
35°	737.1	735.4	748.4	743.1	743.1
37.5°	702.9	701.4	713.2	706.9	704.9
40°	677.9	677.0	687.5	680.5	680.5
42.5°	652.8	652.0	661.0	652.6	652.6
45°	614.4	612.7	618.7	610.8	609.1
47.5°	572.4	570.7	574.5	566.0	565.1
50°	543.9	542.2	543.9	536.0	535.2
52.5°	514.6	511.6	511.8	504.0	503.8
55°	469.9	463.9	463.8	456.9	456.9
57.5°	422.6	414.7	415.4	409.5	408.6
60°	389.8	381.3	382.0	376.8	375.9
62.5°	357.8	348.0	350.0	344.1	343.9
65°	304.6	297.8	298.5	295.9	295.9
67.5°	253.4	247.1	251.7	249.6	249.4
70°	215.8	211.6	217.5	217.5	216.7
72.5°	181.0	180.8	188.3	188.3	188.8
75°	131.4	137.4	145.3	146.2	146.2
77.5°	87.7	98.3	107.0	107.4	107.2
80°	62.7	74.6	82.7	84.4	83.5
82.5°	42.5	55.1	61.8	63.5	62.7
85°	19.1	29.4	34.8	35.7	34.8
87.5°	5.6	11.7	13.9	13.9	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)