

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: P562834

Luminaire Tested: **SQ4-PC3-0U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562834
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

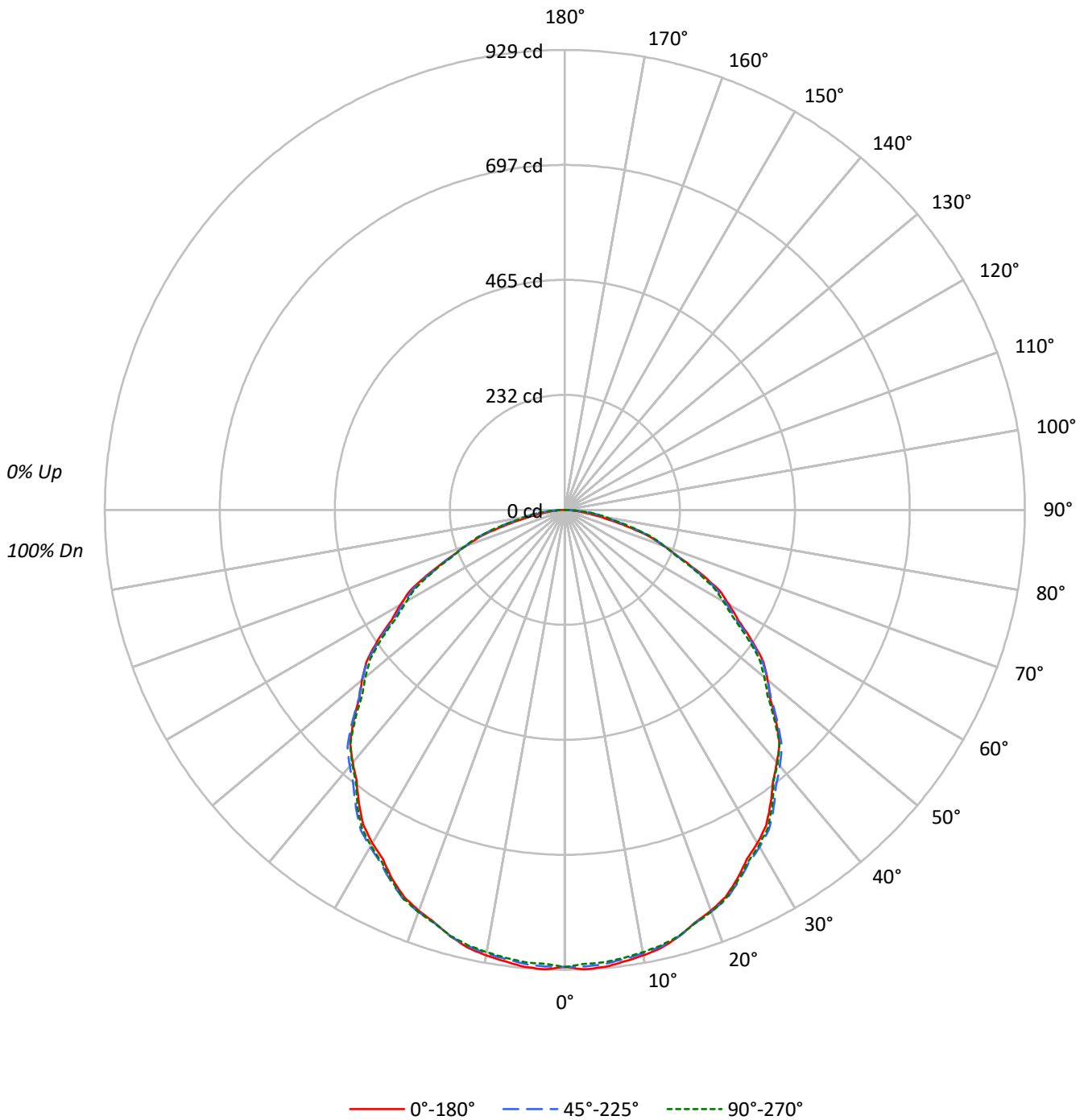
Lumens per Lamp: N/A
Luminaire Lumens: 2520.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	8519	8519	8519
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8511
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8380	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7877	7932	7809
50°	7670	7670	7548
55°	7427	7330	7221
60°	7069	6927	6816
65°	6534	6403	6346
70°	5722	5767	5743
75°	4602	5090	5119
80°	3273	4314	4362
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.5
10°-20°	250.8	10.0
20°-30°	379.8	15.1
30°-40°	455.3	18.1
40°-50°	464.3	18.4
50°-60°	405.3	16.1
60°-70°	290.2	11.5
70°-80°	149.4	5.9
80°-90°	37.8	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°	718.0	28.5
0°-40°	1173.3	46.6
0°-60°	2042.9	81.1
0°-90°	2520.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2520.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	927	918	921	918	918	88
15°	892	884	892	892	891	251
25°	823	818	829	827	827	379
35°	724	723	735	730	730	453
45°	604	602	608	600	598	465
55°	462	456	456	449	449	412
65°	299	293	293	291	291	296
75°	129	135	143	144	144	140
85°	19	29	34	35	34	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.4	923.4	923.4	923.4	923.4
2.5°	928.9	920.9	923.4	921.3	918.0
5°	926.9	917.7	920.9	918.3	917.5
7.5°	920.2	911.0	915.2	913.5	912.7
10°	914.0	904.8	909.8	908.0	907.2
12.5°	905.8	897.3	902.9	901.2	901.0
15°	891.8	884.3	891.8	891.8	891.0
17.5°	874.2	867.3	875.4	875.9	875.4
20°	861.9	854.4	864.4	863.6	864.4
22.5°	846.8	840.6	851.5	849.2	850.1
25°	823.4	817.6	829.4	826.8	826.8
27.5°	795.7	791.5	804.4	801.7	801.7
30°	777.2	773.1	786.6	783.2	783.2
32.5°	756.7	753.9	766.8	762.7	762.7
35°	724.2	722.6	735.3	730.2	730.2
37.5°	690.7	689.2	700.8	694.6	692.6
40°	666.1	665.2	675.5	668.6	668.6
42.5°	641.5	640.6	649.5	641.3	641.3
45°	603.7	602.0	607.9	600.2	598.5
47.5°	562.4	560.8	564.5	556.1	555.3
50°	534.4	532.7	534.4	526.7	525.9
52.5°	505.7	502.7	502.9	495.2	495.1
55°	461.7	455.9	455.7	448.9	448.9
57.5°	415.2	407.5	408.2	402.4	401.5
60°	383.1	374.7	375.4	370.2	369.4
62.5°	351.6	341.9	343.9	338.1	337.9
65°	299.3	292.6	293.3	290.7	290.7
67.5°	249.0	242.8	247.3	245.2	245.1
70°	212.1	207.9	213.8	213.7	212.9
72.5°	177.8	177.7	185.0	185.0	185.5
75°	129.1	135.0	142.8	143.6	143.6
77.5°	86.2	96.6	105.2	105.5	105.3
80°	61.6	73.3	81.2	82.9	82.1
82.5°	41.7	54.1	60.7	62.4	61.6
85°	18.8	28.8	34.2	35.0	34.2
87.5°	5.5	11.5	13.7	13.7	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)