

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: P562738

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562738
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

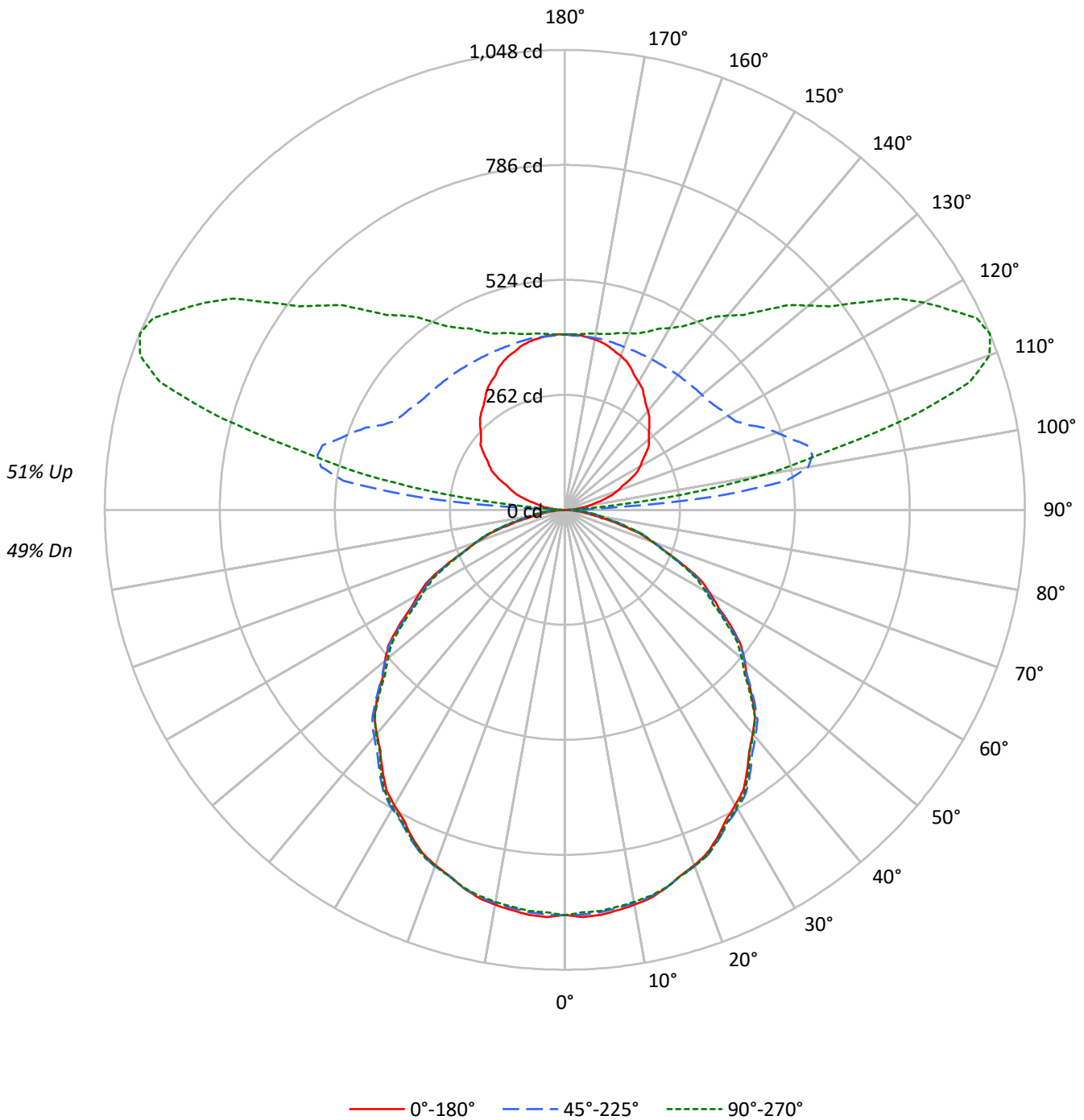
Lumens per Lamp: N/A
Luminaire Lumens: 5122.5 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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	1.7
10°-20°	250.8	4.9
20°-30°	379.8	7.4
30°-40°	455.3	8.9
40°-50°	464.3	9.1
50°-60°	405.3	7.9
60°-70°	290.2	5.7
70°-80°	149.4	2.9
80°-90°	38.8	0.8
90°-100°	188.3	3.7
100°-110°	518.1	10.1
110°-120°	534.8	10.4
120°-130°	428.5	8.4
130°-140°	336.5	6.6
140°-150°	257.9	5.0
150°-160°	185.4	3.6
160°-170°	113.4	2.2
170°-180°	38.2	0.7
0°-30°	718.0	14.0
0°-40°	1173.3	22.9
0°-60°	2042.9	39.9
0°-90°	2521.3	49.2
90°-120°	1241.3	24.2
90°-150°	2264.2	44.2
90°-180°	2601.0	50.8
0°-180°	5122.5	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°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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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°	5.6	12.2	14.9	15.2	13.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)