

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: P562546

Luminaire Tested: **SQ4-PC3-025U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562546
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

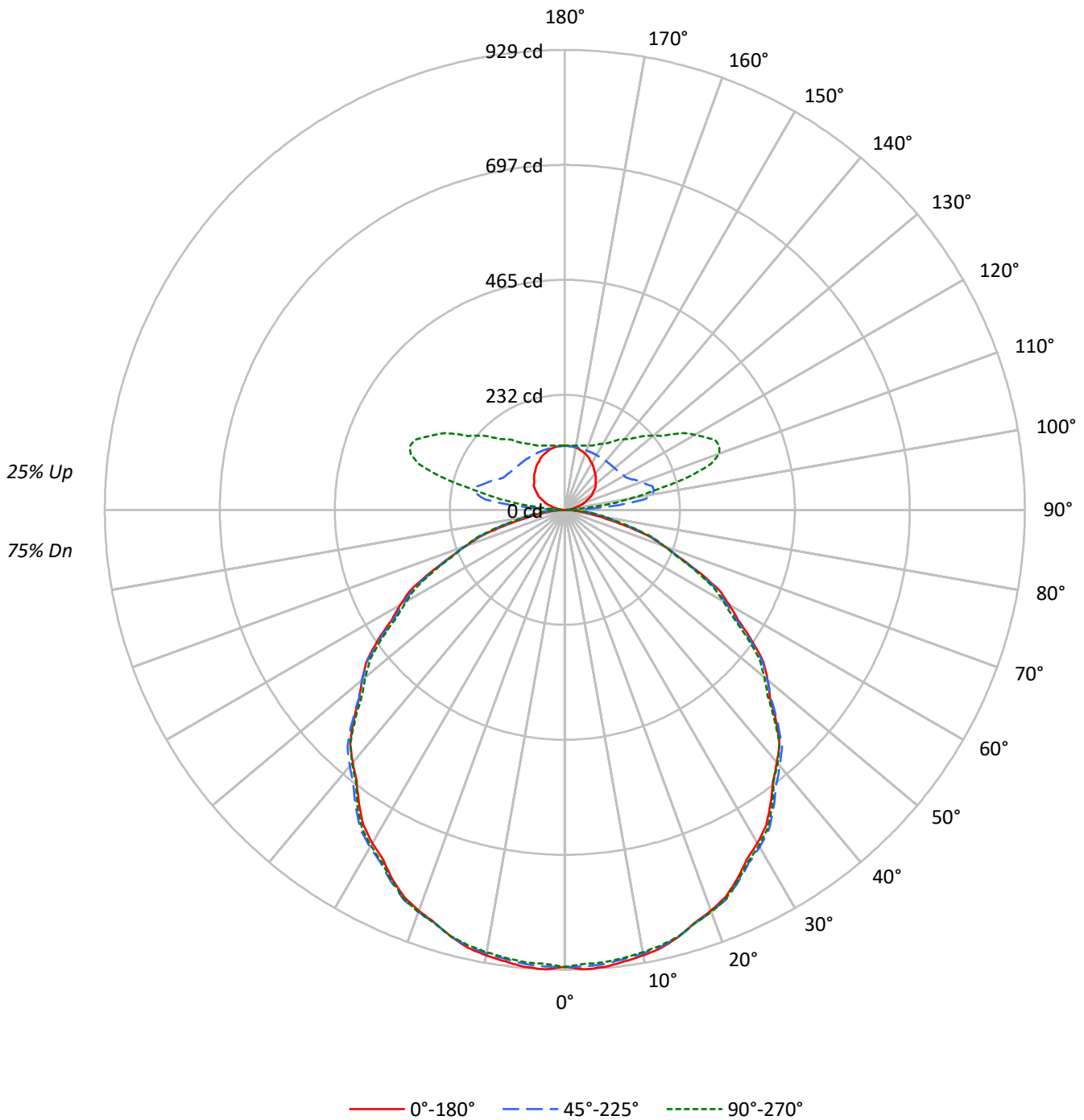
Lumens per Lamp: N/A
Luminaire Lumens: 3360.2 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

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	2.6
10°-20°	250.8	7.5
20°-30°	379.8	11.3
30°-40°	455.3	13.6
40°-50°	464.3	13.8
50°-60°	405.3	12.1
60°-70°	290.2	8.6
70°-80°	149.4	4.4
80°-90°	38.5	1.1
90°-100°	63.1	1.9
100°-110°	165.9	4.9
110°-120°	172.0	5.1
120°-130°	138.0	4.1
130°-140°	108.3	3.2
140°-150°	83.1	2.5
150°-160°	59.9	1.8
160°-170°	36.6	1.1
170°-180°	12.4	0.4
0°-30°	718.0	21.4
0°-40°	1173.3	34.9
0°-60°	2042.9	60.8
0°-90°	2520.9	75.0
90°-120°	401.1	11.9
90°-150°	730.4	21.7
90°-180°	839.0	25.0
0°-180°	3360.2	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	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	



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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	12.0	15.0	14.3	13.0
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)