

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: P562719

Luminaire Tested: **SQ4-PC3-075U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562719
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-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

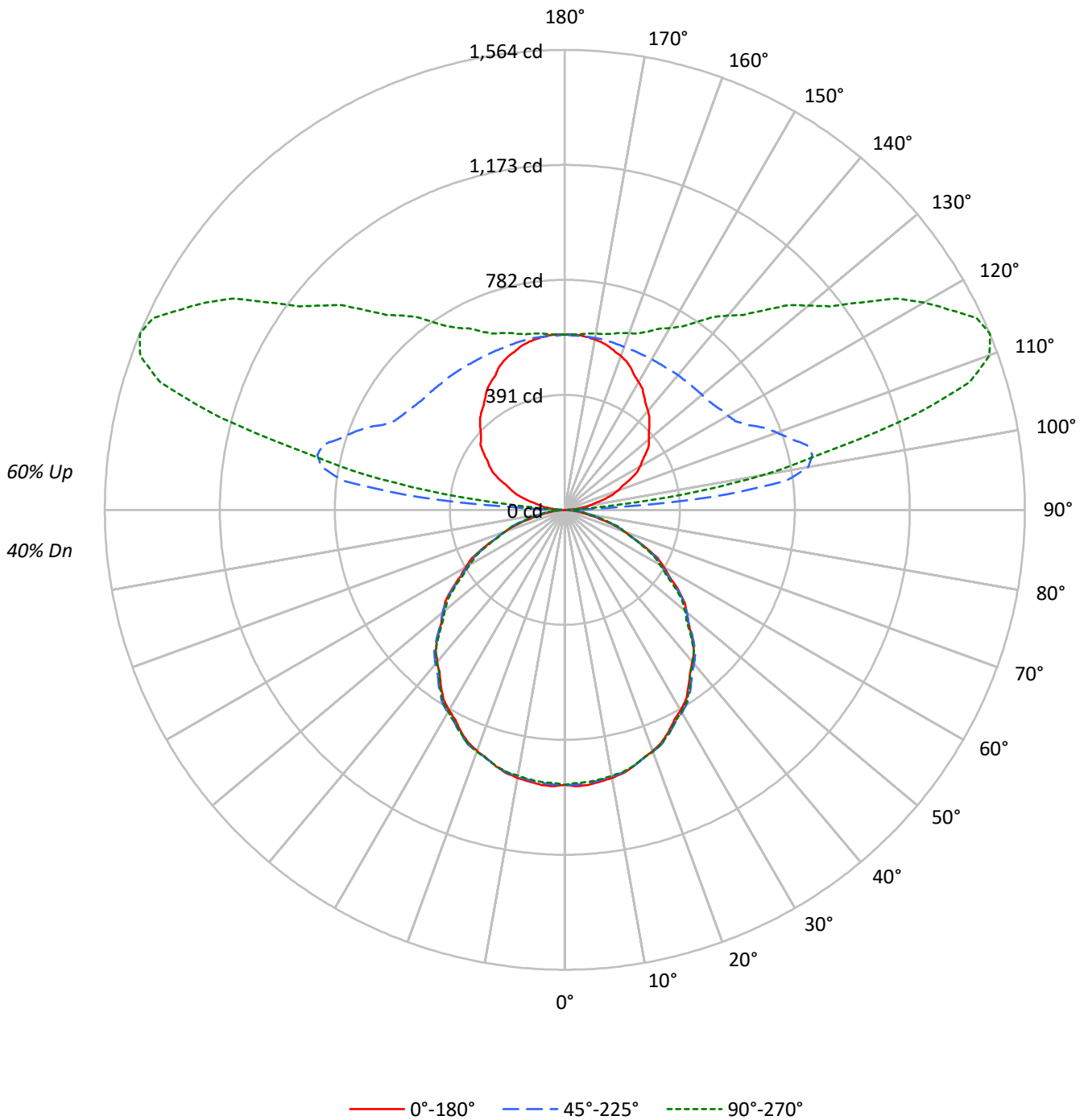
Lumens per Lamp: N/A
Luminaire Lumens: 6435.5 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5355	5271
50°	5178	5178	5095
55°	5013	4949	4874
60°	4772	4676	4601
65°	4410	4323	4285
70°	3861	3892	3877
75°	3106	3436	3458
80°	2207	2912	2943
85°	1341	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	1.4
10°-20°	253.9	3.9
20°-30°	384.6	6.0
30°-40°	461.0	7.2
40°-50°	470.1	7.3
50°-60°	410.4	6.4
60°-70°	293.8	4.6
70°-80°	151.3	2.4
80°-90°	39.8	0.6
90°-100°	281.1	4.4
100°-110°	773.3	12.0
110°-120°	798.1	12.4
120°-130°	639.5	9.9
130°-140°	502.3	7.8
140°-150°	384.9	6.0
150°-160°	276.7	4.3
160°-170°	169.2	2.6
170°-180°	57.0	0.9
0°-30°	727.0	11.3
0°-40°	1188.1	18.5
0°-60°	2068.5	32.1
0°-90°	2553.4	39.7
90°-120°	1852.5	28.8
90°-150°	3379.1	52.5
90°-180°	3882.0	60.3
0°-180°	6435.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	938	929	932	930	929	89
15°	903	895	903	903	902	255
25°	834	828	840	837	837	384
35°	733	732	745	739	739	459
45°	611	610	616	608	606	470
55°	468	462	462	454	454	417
65°	303	296	297	294	294	300
75°	131	137	145	146	146	141
85°	19	29	35	36	35	26
90°	1	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.0	935.0	935.0	935.0	935.0
2.5°	940.6	932.5	935.0	932.9	929.5
5°	938.5	929.2	932.4	929.8	929.0
7.5°	931.7	922.4	926.7	925.0	924.1
10°	925.5	916.2	921.2	919.4	918.6
12.5°	917.2	908.6	914.3	912.5	912.4
15°	903.0	895.4	903.0	903.0	902.1
17.5°	885.2	878.2	886.4	886.9	886.4
20°	872.7	865.1	875.3	874.5	875.3
22.5°	857.5	851.2	862.1	859.9	860.8
25°	833.7	827.8	839.8	837.2	837.2
27.5°	805.7	801.5	814.5	811.8	811.8
30°	787.0	782.8	796.5	793.1	793.1
32.5°	766.2	763.3	776.4	772.3	772.3
35°	733.3	731.6	744.6	739.4	739.4
37.5°	699.4	697.9	709.6	703.3	701.3
40°	674.4	673.6	684.0	677.0	677.0
42.5°	649.5	648.7	657.6	649.3	649.3
45°	611.2	609.5	615.6	607.7	606.0
47.5°	569.5	567.8	571.6	563.1	562.2
50°	541.1	539.4	541.1	533.3	532.5
52.5°	512.0	509.0	509.2	501.5	501.3
55°	467.5	461.6	461.5	454.5	454.5
57.5°	420.4	412.6	413.3	407.4	406.6
60°	387.9	379.4	380.1	374.9	374.0
62.5°	356.0	346.2	348.2	342.3	342.2
65°	303.0	296.2	297.0	294.4	294.4
67.5°	252.1	245.8	250.4	248.3	248.1
70°	214.7	210.5	216.4	216.4	215.6
72.5°	180.1	179.9	187.4	187.4	187.9
75°	130.7	136.7	144.6	145.5	145.5
77.5°	87.3	97.8	106.5	106.8	106.7
80°	62.3	74.2	82.2	84.0	83.1
82.5°	42.2	54.8	61.5	63.2	62.3
85°	19.0	29.2	34.6	35.5	34.6
87.5°	5.8	12.6	15.6	16.1	14.7
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)