

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: P562707

Luminaire Tested: **SQ4-PC3-075U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562707
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-840-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

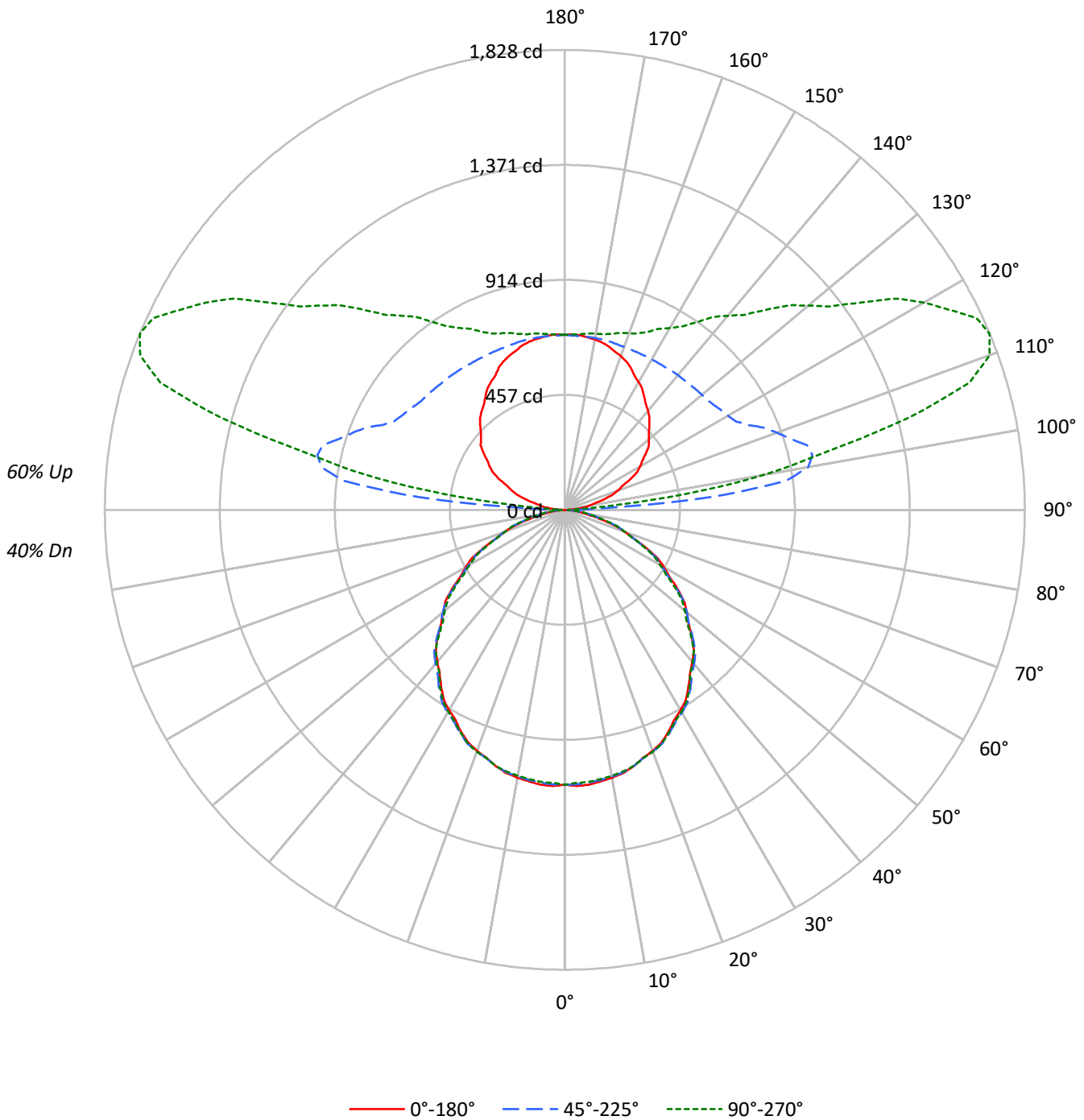
Lumens per Lamp: N/A
Luminaire Lumens: 7519.3 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	6720	6720	6720
5°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6533	6487
40°	6327	6416	6352
45°	6213	6256	6159
50°	6049	6049	5953
55°	5858	5782	5695
60°	5575	5463	5376
65°	5154	5050	5005
70°	4512	4548	4530
75°	3629	4014	4038
80°	2579	3404	3439
85°	1574	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	1.4
10°-20°	296.7	3.9
20°-30°	449.3	6.0
30°-40°	538.7	7.2
40°-50°	549.3	7.3
50°-60°	479.5	6.4
60°-70°	343.3	4.6
70°-80°	176.8	2.4
80°-90°	46.5	0.6
90°-100°	328.4	4.4
100°-110°	903.5	12.0
110°-120°	932.6	12.4
120°-130°	747.2	9.9
130°-140°	586.8	7.8
140°-150°	449.7	6.0
150°-160°	323.3	4.3
160°-170°	197.7	2.6
170°-180°	66.6	0.9
0°-30°	849.4	11.3
0°-40°	1388.1	18.5
0°-60°	2416.9	32.1
0°-90°	2983.4	39.7
90°-120°	2164.4	28.8
90°-150°	3948.2	52.5
90°-180°	4536.0	60.3
0°-180°	7519.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1096	1086	1090	1086	1085	104
15°	1055	1046	1055	1055	1054	297
25°	974	967	981	978	978	448
35°	857	855	870	864	864	536
45°	714	712	719	710	708	550
55°	546	539	539	531	531	487
65°	354	346	347	344	344	350
75°	153	160	169	170	170	165
85°	22	34	40	42	40	30
90°	2	6	10	13	13	4
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.5	1092.5	1092.5	1092.5	1092.5
2.5°	1099.0	1089.5	1092.5	1090.0	1086.0
5°	1096.5	1085.7	1089.5	1086.4	1085.4
7.5°	1088.7	1077.8	1082.8	1080.7	1079.8
10°	1081.4	1070.5	1076.3	1074.3	1073.3
12.5°	1071.7	1061.6	1068.2	1066.2	1066.0
15°	1055.1	1046.2	1055.1	1055.1	1054.1
17.5°	1034.2	1026.1	1035.7	1036.2	1035.7
20°	1019.7	1010.8	1022.7	1021.7	1022.7
22.5°	1001.9	994.5	1007.3	1004.7	1005.7
25°	974.1	967.2	981.2	978.2	978.2
27.5°	941.4	936.4	951.7	948.5	948.5
30°	919.5	914.6	930.7	926.6	926.6
32.5°	895.2	891.9	907.2	902.3	902.3
35°	856.8	854.8	870.0	863.9	863.9
37.5°	817.2	815.4	829.1	821.8	819.4
40°	788.0	787.0	799.1	791.1	791.1
42.5°	758.9	757.9	768.4	758.7	758.7
45°	714.2	712.2	719.2	710.1	708.1
47.5°	665.4	663.4	667.8	657.9	656.9
50°	632.2	630.3	632.2	623.1	622.1
52.5°	598.2	594.7	595.0	585.9	585.7
55°	546.3	539.3	539.2	531.1	531.1
57.5°	491.2	482.1	482.9	476.0	475.0
60°	453.2	443.3	444.1	438.0	437.0
62.5°	416.0	404.5	406.9	400.0	399.8
65°	354.1	346.1	347.0	343.9	343.9
67.5°	294.6	287.3	292.5	290.1	289.9
70°	250.9	245.9	252.9	252.9	251.9
72.5°	210.4	210.2	218.9	218.9	219.5
75°	152.7	159.7	168.9	169.9	169.9
77.5°	102.0	114.2	124.4	124.8	124.6
80°	72.8	86.7	96.1	98.1	97.1
82.5°	49.4	64.0	71.8	73.8	72.8
85°	22.3	34.1	40.5	41.5	40.5
87.5°	6.8	14.8	18.3	18.8	17.2
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)