

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: P562750

Luminaire Tested: **SQ4-PC3-075U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562750
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-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

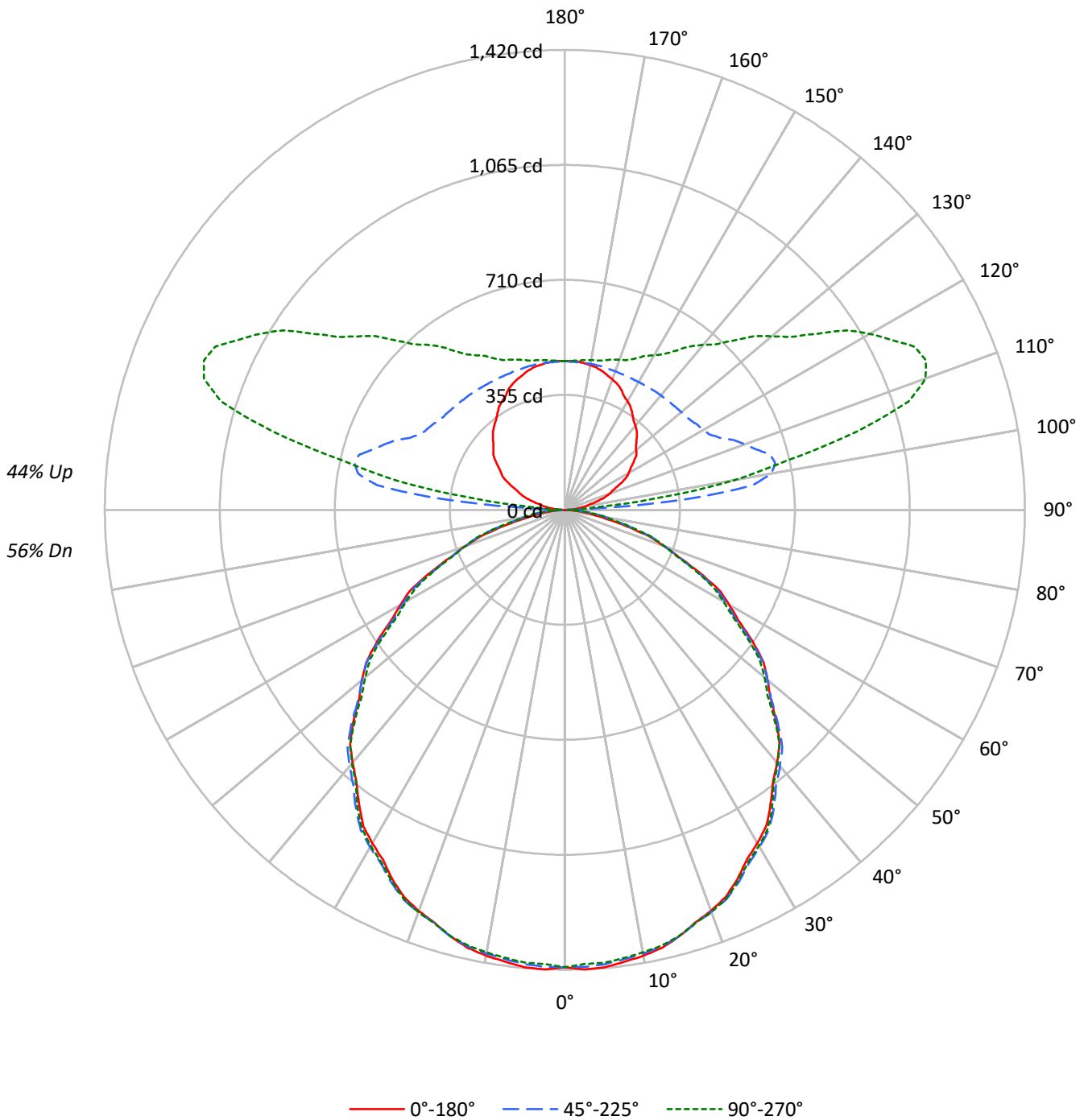
Lumens per Lamp: N/A
Luminaire Lumens: 6848.9 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13028	13028	13028
5°	13127	13042	12994
10°	13094	13034	12997
15°	13026	13026	13013
20°	12941	12979	12979
25°	12818	12911	12872
30°	12662	12815	12760
35°	12474	12665	12576
40°	12268	12440	12315
45°	12044	12131	11943
50°	11730	11730	11542
55°	11358	11210	11043
60°	10809	10592	10424
65°	9990	9791	9706
70°	8748	8818	8783
75°	7037	7785	7832
80°	5000	6599	6668
85°	3049	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	2.0
10°-20°	383.5	5.6
20°-30°	580.8	8.5
30°-40°	696.3	10.2
40°-50°	710.0	10.4
50°-60°	619.8	9.0
60°-70°	443.7	6.5
70°-80°	228.5	3.3
80°-90°	58.9	0.9
90°-100°	216.8	3.2
100°-110°	596.3	8.7
110°-120°	615.5	9.0
120°-130°	493.1	7.2
130°-140°	387.3	5.7
140°-150°	296.8	4.3
150°-160°	213.4	3.1
160°-170°	130.5	1.9
170°-180°	44.0	0.6
0°-30°	1097.9	16.0
0°-40°	1794.2	26.2
0°-60°	3123.9	45.6
0°-90°	3855.1	56.3
90°-120°	1428.6	20.9
90°-150°	2605.9	38.0
90°-180°	2994.0	43.7
0°-180°	6848.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1417	1403	1408	1404	1403	135
15°	1364	1352	1364	1364	1362	385
25°	1259	1250	1268	1264	1264	579
35°	1108	1105	1124	1117	1117	693
45°	923	921	930	918	915	711
55°	706	697	697	686	686	629
65°	458	447	448	445	445	453
75°	197	206	218	220	220	213
85°	29	44	52	54	52	39
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1420.5	1408.2	1412.1	1408.9	1403.8
5°	1417.4	1403.3	1408.2	1404.3	1403.0
7.5°	1407.2	1393.1	1399.6	1396.9	1395.7
10°	1397.7	1383.7	1391.2	1388.6	1387.3
12.5°	1385.2	1372.2	1380.7	1378.1	1377.9
15°	1363.7	1352.2	1363.7	1363.7	1362.4
17.5°	1336.8	1326.3	1338.6	1339.4	1338.6
20°	1318.0	1306.5	1321.9	1320.6	1321.9
22.5°	1295.0	1285.5	1302.0	1298.7	1299.9
25°	1259.1	1250.2	1268.3	1264.4	1264.4
27.5°	1216.8	1210.4	1230.1	1225.9	1225.9
30°	1188.5	1182.1	1202.9	1197.7	1197.7
32.5°	1157.2	1152.8	1172.6	1166.3	1166.3
35°	1107.5	1104.9	1124.5	1116.6	1116.6
37.5°	1056.2	1053.9	1071.6	1062.2	1059.1
40°	1018.6	1017.3	1032.9	1022.5	1022.5
42.5°	980.9	979.6	993.2	980.6	980.6
45°	923.1	920.6	929.7	917.8	915.3
47.5°	860.1	857.5	863.2	850.4	849.1
50°	817.2	814.6	817.2	805.4	804.1
52.5°	773.3	768.7	769.1	757.3	757.1
55°	706.1	697.1	696.9	686.5	686.5
57.5°	634.9	623.2	624.2	615.3	614.0
60°	585.8	573.0	574.0	566.1	564.9
62.5°	537.7	522.8	525.9	517.0	516.7
65°	457.6	447.4	448.5	444.6	444.6
67.5°	380.8	371.3	378.1	375.0	374.7
70°	324.3	317.9	326.9	326.9	325.6
72.5°	272.0	271.7	282.9	283.0	283.7
75°	197.4	206.4	218.4	219.7	219.7
77.5°	131.8	147.7	160.8	161.3	161.1
80°	94.1	112.0	124.2	126.8	125.5
82.5°	63.8	82.7	92.8	95.4	94.1
85°	28.8	44.1	52.3	53.6	52.3
87.5°	8.6	18.3	22.3	22.6	20.6
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)