

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: P562658

Luminaire Tested: **SQ4-PC3-050U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562658
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

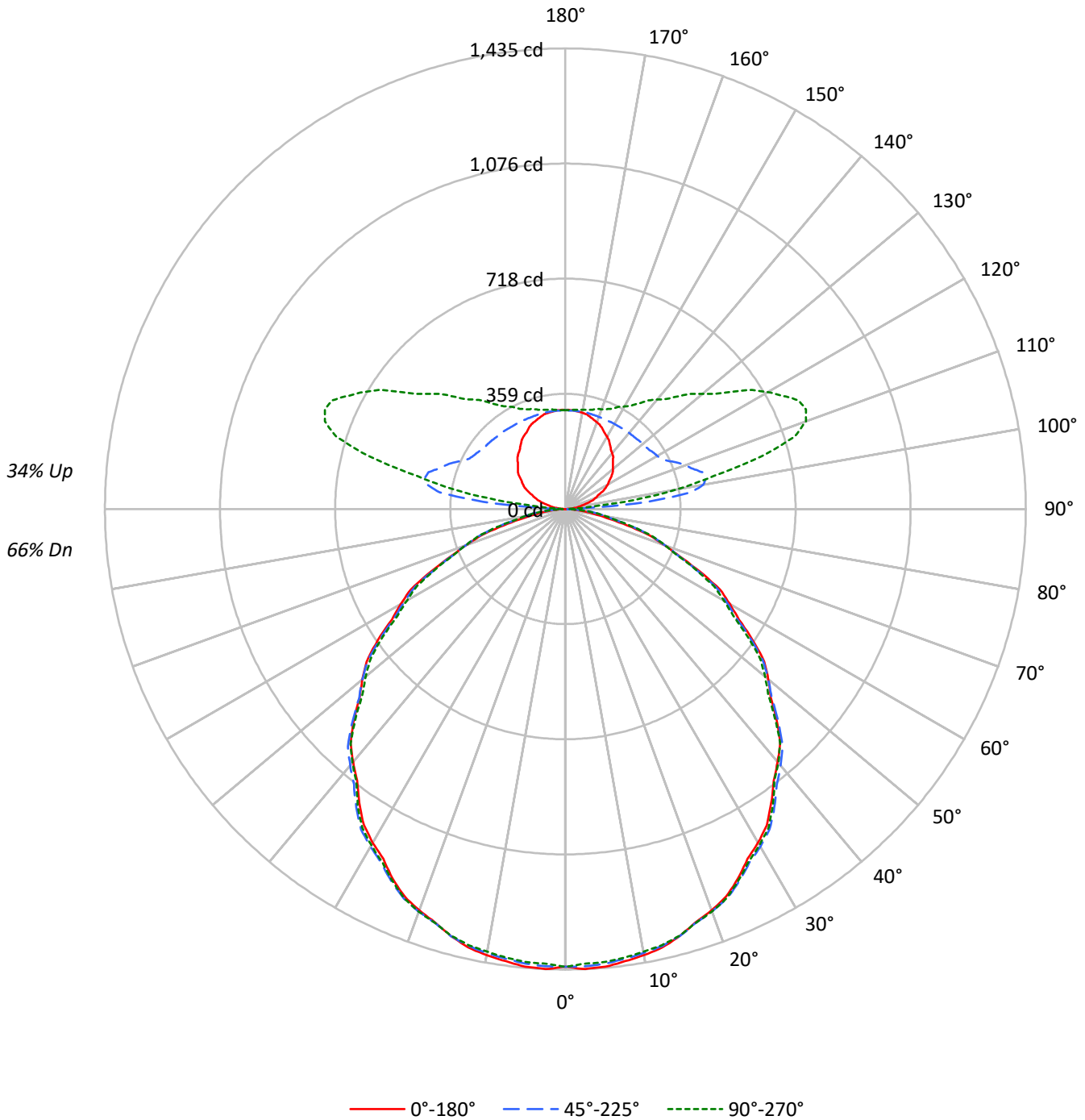
Lumens per Lamp: N/A
Luminaire Lumens: 5905.9 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13159	13159	13159
5°	13259	13173	13124
10°	13226	13165	13127
15°	13157	13157	13145
20°	13070	13109	13109
25°	12947	13042	13001
30°	12790	12944	12888
35°	12599	12793	12704
40°	12391	12565	12439
45°	12166	12252	12063
50°	11847	11847	11658
55°	11472	11323	11154
60°	10918	10699	10527
65°	10090	9889	9802
70°	8835	8907	8872
75°	7108	7864	7910
80°	5053	6668	6737
85°	3080	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	2.3
10°-20°	387.4	6.6
20°-30°	586.6	9.9
30°-40°	703.3	11.9
40°-50°	717.1	12.1
50°-60°	626.0	10.6
60°-70°	448.2	7.6
70°-80°	230.8	3.9
80°-90°	59.6	1.0
90°-100°	147.9	2.5
100°-110°	401.8	6.8
110°-120°	413.2	7.0
120°-130°	330.3	5.6
130°-140°	259.5	4.4
140°-150°	199.0	3.4
150°-160°	143.1	2.4
160°-170°	87.5	1.5
170°-180°	29.5	0.5
0°-30°	1109.0	18.8
0°-40°	1812.3	30.7
0°-60°	3155.4	53.4
0°-90°	3893.9	65.9
90°-120°	962.9	16.3
90°-150°	1751.8	29.7
90°-180°	2012.0	34.1
0°-180°	5905.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1432	1417	1422	1418	1417	136
15°	1378	1366	1378	1377	1376	388
25°	1272	1263	1281	1277	1277	585
35°	1119	1116	1136	1128	1128	700
45°	932	930	939	927	924	718
55°	713	704	704	693	693	636
65°	462	452	453	449	449	457
75°	199	208	221	222	222	215
85°	29	45	53	54	53	40
90°	1	4	7	9	9	3
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	

TEST NUMBER: P562658

CATALOG NUMBER: SQ4-PC3-050U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.3	1426.3	1426.3	1426.3	1426.3
2.5°	1434.8	1422.4	1426.3	1423.1	1417.9
5°	1431.6	1417.4	1422.4	1418.4	1417.1
7.5°	1421.3	1407.1	1413.7	1411.0	1409.7
10°	1411.8	1397.6	1405.2	1402.5	1401.2
12.5°	1399.1	1386.0	1394.6	1392.0	1391.7
15°	1377.5	1365.9	1377.5	1377.4	1376.2
17.5°	1350.3	1339.7	1352.1	1352.9	1352.1
20°	1331.2	1319.6	1335.2	1333.9	1335.2
22.5°	1308.0	1298.4	1315.1	1311.7	1313.0
25°	1271.8	1262.8	1281.1	1277.1	1277.1
27.5°	1229.0	1222.6	1242.5	1238.3	1238.3
30°	1200.5	1194.0	1215.0	1209.7	1209.7
32.5°	1168.8	1164.4	1184.4	1178.0	1178.0
35°	1118.6	1116.0	1135.8	1127.9	1127.9
37.5°	1066.8	1064.5	1082.4	1072.9	1069.8
40°	1028.8	1027.5	1043.3	1032.8	1032.8
42.5°	990.8	989.5	1003.2	990.5	990.5
45°	932.4	929.8	939.0	927.1	924.5
47.5°	868.7	866.2	871.9	858.9	857.7
50°	825.4	822.8	825.4	813.5	812.2
52.5°	781.1	776.4	776.8	764.9	764.7
55°	713.2	704.1	703.9	693.4	693.4
57.5°	641.3	629.4	630.5	621.5	620.2
60°	591.7	578.8	579.8	571.8	570.5
62.5°	543.1	528.1	531.2	522.2	521.9
65°	462.2	451.9	453.0	449.0	449.0
67.5°	384.6	375.0	381.9	378.8	378.5
70°	327.5	321.1	330.2	330.1	328.9
72.5°	274.7	274.4	285.8	285.8	286.6
75°	199.4	208.5	220.6	221.9	221.9
77.5°	133.1	149.1	162.4	163.0	162.7
80°	95.1	113.2	125.5	128.1	126.8
82.5°	64.4	83.6	93.8	96.4	95.1
85°	29.1	44.6	52.8	54.1	52.8
87.5°	8.7	18.5	22.5	22.9	20.8
90°	1.0	3.9	6.9	8.9	8.9
92.5°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6

TEST NUMBER: P562658

CATALOG NUMBER: SQ4-PC3-050U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.4</i>	140.8	378.3	739.6	811.1
115°	<i>126.8</i>	154.0	353.7	703.7	801.6
117.5°	<i>142.3</i>	168.2	338.1	652.9	763.1
120°	<i>152.6</i>	177.8	330.9	618.8	728.3
122.5°	<i>161.3</i>	186.5	326.2	584.6	690.2
125°	<i>174.4</i>	198.6	320.0	539.2	636.1
127.5°	<i>186.1</i>	210.1	316.7	504.8	588.0
130°	<i>193.2</i>	216.5	315.1	483.2	557.8
132.5°	<i>200.3</i>	223.6	313.5	464.8	530.9
135°	<i>210.1</i>	233.3	311.1	439.2	495.4
137.5°	<i>220.6</i>	241.7	309.9	416.6	463.9
140°	<i>226.9</i>	247.2	309.1	402.2	444.9
142.5°	<i>233.2</i>	252.0	308.3	391.0	426.6
145°	<i>242.8</i>	260.2	307.2	373.2	401.3
147.5°	<i>253.5</i>	268.4	306.2	359.2	381.3
150°	<i>260.6</i>	273.2	306.2	351.1	368.6
152.5°	<i>266.1</i>	277.2	305.4	343.9	358.3
155°	<i>274.5</i>	284.1	305.2	335.1	344.8
157.5°	<i>282.6</i>	290.1	305.2	329.1	336.5
160°	<i>287.3</i>	294.1	305.2	325.1	330.9
162.5°	<i>292.1</i>	297.3	306.0	321.9	326.2
165°	<i>297.2</i>	301.1	306.2	319.1	320.0
167.5°	<i>302.6</i>	304.5	307.2	315.7	316.5
170°	<i>304.2</i>	306.1	307.2	314.1	314.1
172.5°	<i>305.8</i>	306.9	307.2	312.5	312.5
175°	<i>308.1</i>	309.1	307.2	311.1	310.1
177.5°	<i>308.9</i>	308.9	306.6	309.7	308.1
180°	<i>308.1</i>	308.1	308.1	308.1	308.1

(END OF REPORT)