

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: P562620

Luminaire Tested: **SQ4-PC3-050U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562620
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-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

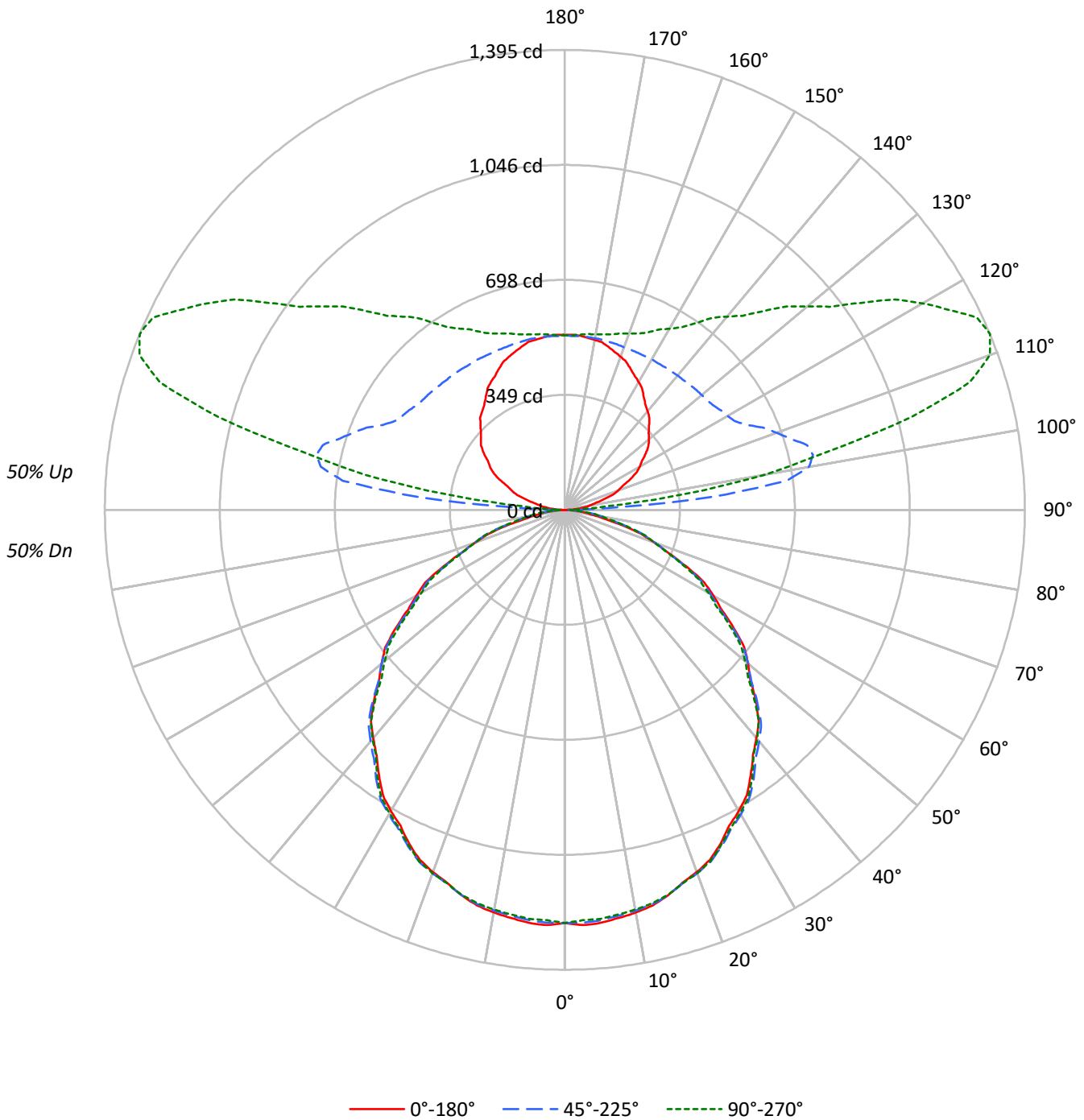
Lumens per Lamp: N/A
Luminaire Lumens: 6883.5 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5039	4974	4899
60°	4796	4700	4624
65°	4433	4344	4306
70°	3880	3913	3897
75°	3123	3454	3474
80°	2218	2928	2959
85°	1350	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.7
10°-20°	340.3	4.9
20°-30°	515.4	7.5
30°-40°	617.9	9.0
40°-50°	630.0	9.2
50°-60°	550.0	8.0
60°-70°	393.7	5.7
70°-80°	202.8	2.9
80°-90°	53.3	0.8
90°-100°	254.5	3.7
100°-110°	691.4	10.0
110°-120°	710.8	10.3
120°-130°	568.3	8.3
130°-140°	446.6	6.5
140°-150°	342.4	5.0
150°-160°	246.2	3.6
160°-170°	150.6	2.2
170°-180°	50.7	0.7
0°-30°	974.3	14.2
0°-40°	1592.1	23.1
0°-60°	2772.1	40.3
0°-90°	3421.9	49.7
90°-120°	1656.7	24.1
90°-150°	3014.0	43.8
90°-180°	3462.0	50.3
0°-180°	6883.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1258	1245	1250	1246	1245	119
15°	1210	1200	1210	1210	1209	341
25°	1117	1109	1126	1122	1122	514
35°	983	980	998	991	991	615
45°	819	817	825	814	812	631
55°	626	619	618	609	609	559
65°	406	397	398	394	394	402
75°	175	183	194	195	195	189
85°	26	39	46	48	46	35
90°	2	7	12	15	15	4
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

TEST NUMBER: P562620

CATALOG NUMBER: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.1	1253.1	1253.1	1253.1	1253.1
2.5°	1260.5	1249.6	1253.1	1250.2	1245.7
5°	1257.7	1245.2	1249.6	1246.1	1245.0
7.5°	1248.7	1236.2	1241.9	1239.6	1238.5
10°	1240.3	1227.8	1234.5	1232.2	1231.0
12.5°	1229.2	1217.6	1225.2	1222.9	1222.7
15°	1210.2	1199.9	1210.2	1210.1	1209.0
17.5°	1186.2	1176.9	1187.9	1188.6	1187.9
20°	1169.5	1159.3	1173.0	1171.9	1173.0
22.5°	1149.1	1140.7	1155.4	1152.4	1153.5
25°	1117.3	1109.4	1125.5	1122.0	1122.0
27.5°	1079.7	1074.1	1091.6	1087.9	1087.9
30°	1054.7	1049.0	1067.4	1062.8	1062.8
32.5°	1026.8	1023.0	1040.5	1035.0	1035.0
35°	982.7	980.5	997.8	990.9	990.9
37.5°	937.3	935.2	950.9	942.5	939.8
40°	903.8	902.7	916.6	907.3	907.3
42.5°	870.4	869.3	881.3	870.2	870.2
45°	819.1	816.9	824.9	814.5	812.2
47.5°	763.2	761.0	766.0	754.6	753.5
50°	725.2	722.9	725.2	714.7	713.6
52.5°	686.2	682.1	682.5	672.0	671.8
55°	626.5	618.6	618.4	609.1	609.1
57.5°	563.4	553.0	553.9	546.0	544.9
60°	519.8	508.5	509.4	502.4	501.2
62.5°	477.1	463.9	466.7	458.8	458.5
65°	406.1	397.0	398.0	394.5	394.5
67.5°	337.9	329.5	335.5	332.8	332.5
70°	287.7	282.1	290.1	290.0	288.9
72.5°	241.3	241.1	251.1	251.1	251.8
75°	175.2	183.1	193.8	194.9	194.9
77.5°	117.0	131.0	142.7	143.2	142.9
80°	83.5	99.4	110.2	112.5	111.4
82.5°	56.6	73.4	82.4	84.7	83.5
85°	25.5	39.1	46.4	47.5	46.4
87.5°	7.8	16.9	21.0	21.6	19.8
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3



TEST NUMBER: P562620

CATALOG NUMBER: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)