

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: P562739

Luminaire Tested: **SQ4-PC3-075U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562739
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-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

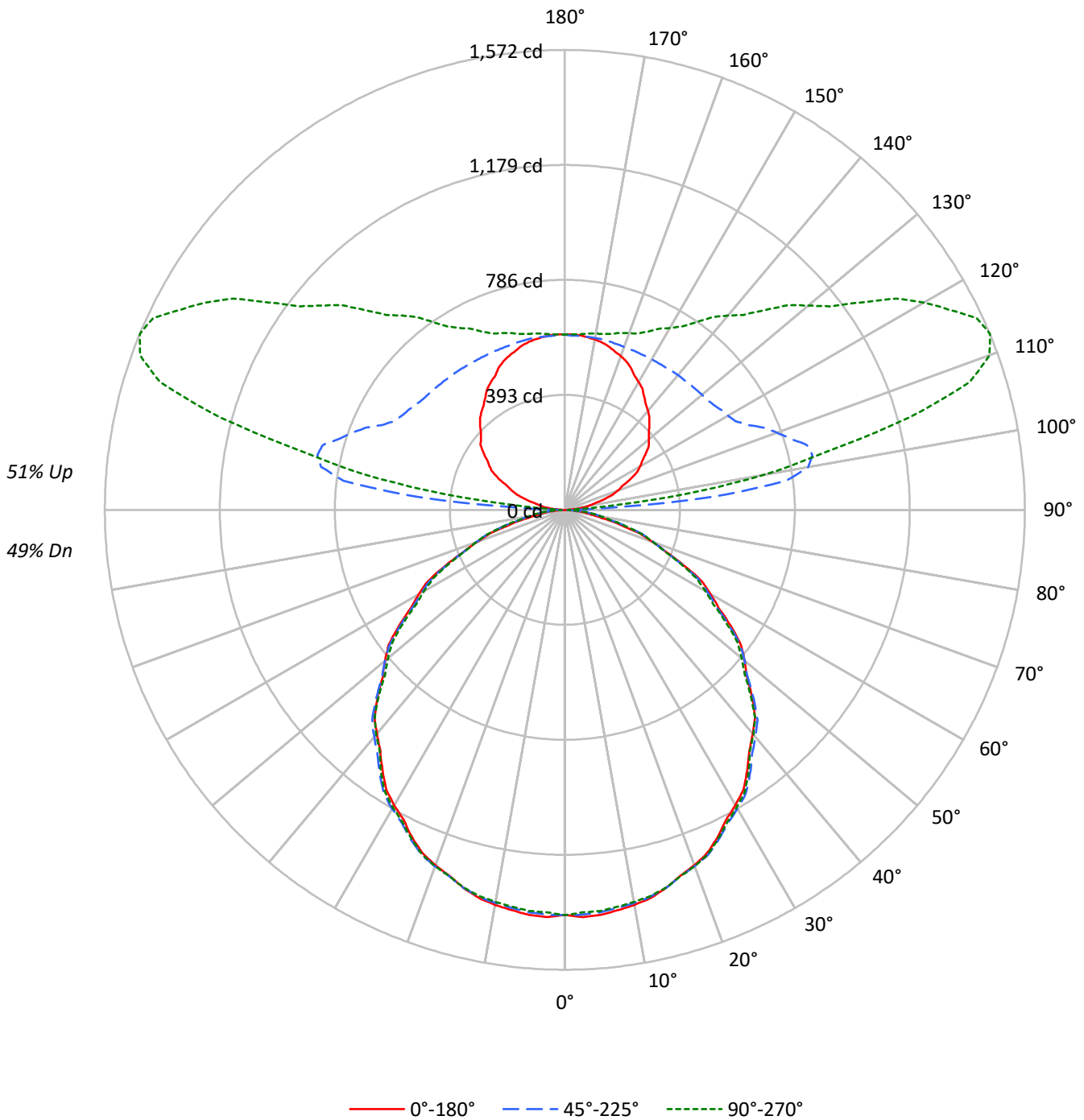
Lumens per Lamp: N/A
Luminaire Lumens: 7683.8 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	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	21	18	21	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°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8488	8488
25°	8382	8443	8417
30°	8281	8381	8344
35°	8157	8282	8224
40°	8022	8135	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7220
60°	7069	6926	6816
65°	6533	6402	6347
70°	5721	5766	5744
75°	4603	5090	5121
80°	3269	4314	4360
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.7
10°-20°	376.2	4.9
20°-30°	569.7	7.4
30°-40°	683.0	8.9
40°-50°	696.4	9.1
50°-60°	607.9	7.9
60°-70°	435.2	5.7
70°-80°	224.2	2.9
80°-90°	58.2	0.8
90°-100°	282.5	3.7
100°-110°	777.2	10.1
110°-120°	802.2	10.4
120°-130°	642.7	8.4
130°-140°	504.8	6.6
140°-150°	386.9	5.0
150°-160°	278.2	3.6
160°-170°	170.1	2.2
170°-180°	57.3	0.7
0°-30°	1077.0	14.0
0°-40°	1760.0	22.9
0°-60°	3064.3	39.9
0°-90°	3781.9	49.2
90°-120°	1861.9	24.2
90°-150°	3396.4	44.2
90°-180°	3902.0	50.8
0°-180°	7683.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1390	1376	1381	1377	1376	132
15°	1338	1326	1338	1338	1336	377
25°	1235	1226	1244	1240	1240	568
35°	1086	1084	1103	1095	1095	679
45°	906	903	912	900	898	697
55°	693	684	684	673	673	617
65°	449	439	440	436	436	444
75°	194	202	214	216	216	209
85°	28	43	51	53	51	38
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1393.4	1381.3	1385.2	1382.0	1377.0
5°	1390.3	1376.5	1381.3	1377.4	1376.2
7.5°	1380.3	1366.5	1372.9	1370.3	1369.0
10°	1371.1	1357.3	1364.7	1362.1	1360.8
12.5°	1358.8	1346.0	1354.4	1351.8	1351.6
15°	1337.7	1326.4	1337.7	1337.7	1336.4
17.5°	1311.3	1301.0	1313.1	1313.8	1313.1
20°	1292.8	1281.5	1296.7	1295.4	1296.7
22.5°	1270.3	1261.0	1277.2	1273.9	1275.1
25°	1235.1	1226.3	1244.1	1240.2	1240.2
27.5°	1193.6	1187.3	1206.6	1202.5	1202.5
30°	1165.9	1159.6	1180.0	1174.8	1174.8
32.5°	1135.1	1130.8	1150.2	1144.0	1144.0
35°	1086.3	1083.8	1103.0	1095.3	1095.3
37.5°	1036.1	1033.8	1051.2	1041.9	1038.9
40°	999.1	997.9	1013.2	1003.0	1003.0
42.5°	962.2	960.9	974.2	961.9	961.9
45°	905.5	903.0	911.9	900.3	897.8
47.5°	843.7	841.2	846.8	834.2	832.9
50°	801.6	799.1	801.6	790.0	788.8
52.5°	758.5	754.0	754.4	742.9	742.6
55°	692.6	683.8	683.6	673.3	673.3
57.5°	622.8	611.3	612.3	603.5	602.3
60°	574.6	562.0	563.0	555.3	554.1
62.5°	527.4	512.8	515.8	507.1	506.9
65°	448.9	438.9	439.9	436.1	436.1
67.5°	373.5	364.2	370.9	367.8	367.6
70°	318.1	311.8	320.6	320.6	319.4
72.5°	266.8	266.5	277.5	277.6	278.3
75°	193.7	202.4	214.2	215.5	215.5
77.5°	129.3	144.8	157.8	158.3	158.0
80°	92.3	109.9	121.8	124.4	123.1
82.5°	62.6	81.1	91.1	93.6	92.3
85°	28.2	43.3	51.3	52.6	51.3
87.5°	8.5	18.2	22.3	22.8	20.8
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)