

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: P562743

Luminaire Tested: **SQ4-PC3-075U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562743
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

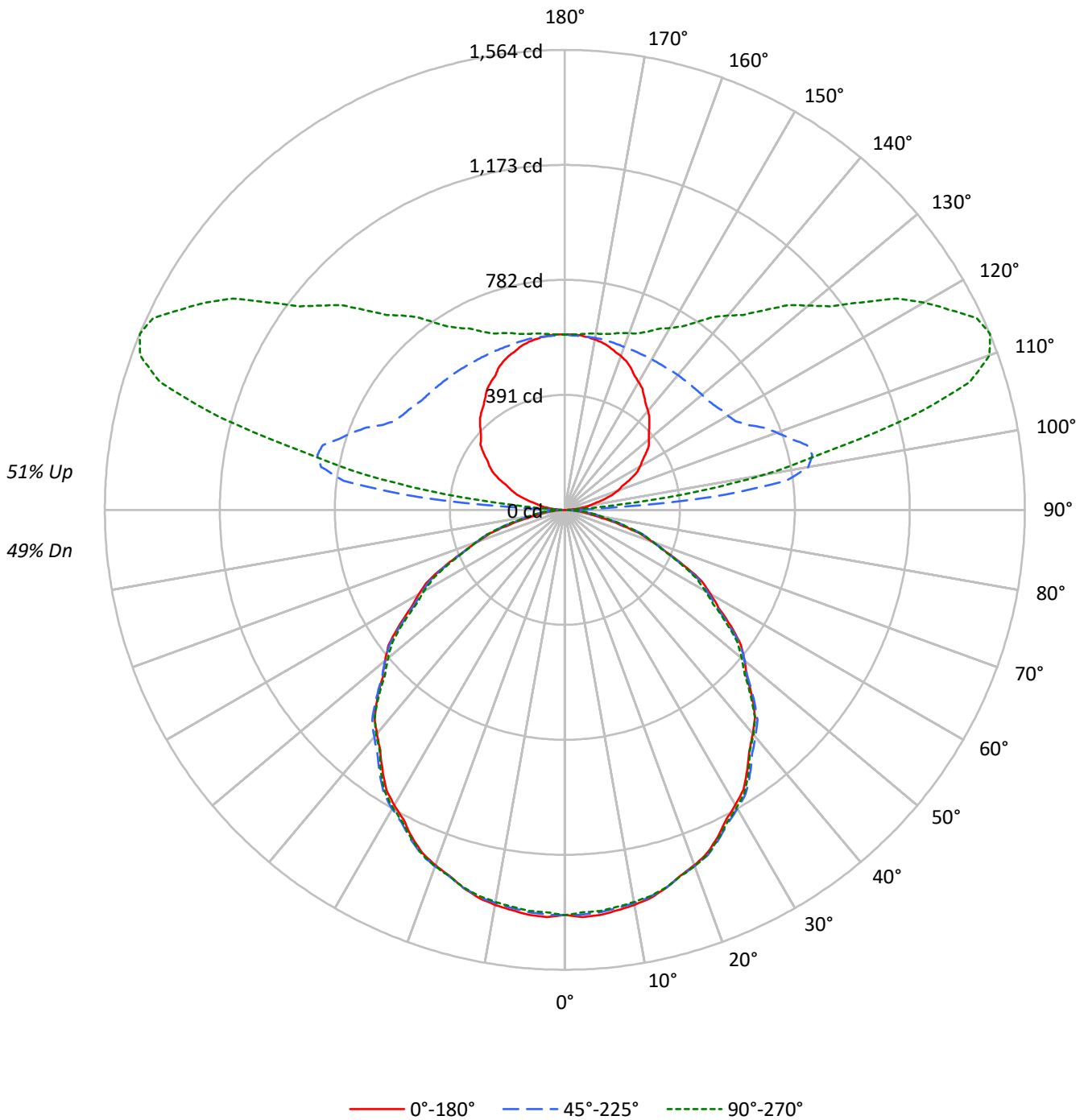
Lumens per Lamp: N/A
Luminaire Lumens: 7644.8 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				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°	8476	8476	8476
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8420	8444	8444
25°	8339	8401	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7981	8094	8012
45°	7837	7892	7770
50°	7631	7631	7510
55°	7390	7293	7184
60°	7033	6891	6782
65°	6500	6370	6315
70°	5692	5737	5713
75°	4579	5064	5095
80°	3255	4293	4339
85°	1983	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.7
10°-20°	374.3	4.9
20°-30°	566.8	7.4
30°-40°	679.5	8.9
40°-50°	692.9	9.1
50°-60°	604.8	7.9
60°-70°	433.0	5.7
70°-80°	223.0	2.9
80°-90°	57.9	0.8
90°-100°	281.1	3.7
100°-110°	773.3	10.1
110°-120°	798.1	10.4
120°-130°	639.5	8.4
130°-140°	502.3	6.6
140°-150°	384.9	5.0
150°-160°	276.7	3.6
160°-170°	169.2	2.2
170°-180°	57.0	0.7
0°-30°	1071.5	14.0
0°-40°	1751.0	22.9
0°-60°	3048.8	39.9
0°-90°	3762.7	49.2
90°-120°	1852.5	24.2
90°-150°	3379.1	44.2
90°-180°	3882.0	50.8
0°-180°	7644.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1383	1370	1374	1370	1369	131
15°	1331	1320	1331	1331	1330	375
25°	1229	1220	1238	1234	1234	566
35°	1081	1078	1097	1090	1090	676
45°	901	898	907	896	893	693
55°	689	680	680	670	670	614
65°	447	437	438	434	434	442
75°	193	201	213	214	214	208
85°	28	43	51	52	51	38
90°	1	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.1	1378.1	1378.1	1378.1	1378.1
2.5°	1386.3	1374.3	1378.1	1375.0	1370.0
5°	1383.2	1369.5	1374.3	1370.5	1369.2
7.5°	1373.3	1359.6	1365.9	1363.3	1362.1
10°	1364.1	1350.4	1357.7	1355.1	1353.9
12.5°	1351.9	1339.1	1347.5	1345.0	1344.7
15°	1330.9	1319.7	1330.9	1330.9	1329.6
17.5°	1304.6	1294.4	1306.4	1307.2	1306.4
20°	1286.3	1275.0	1290.1	1288.8	1290.1
22.5°	1263.8	1254.6	1270.7	1267.4	1268.7
25°	1228.8	1220.1	1237.8	1233.9	1233.9
27.5°	1187.5	1181.3	1200.5	1196.4	1196.4
30°	1159.9	1153.7	1174.0	1168.9	1168.9
32.5°	1129.3	1125.1	1144.4	1138.2	1138.2
35°	1080.8	1078.3	1097.4	1089.8	1089.8
37.5°	1030.8	1028.6	1045.9	1036.6	1033.6
40°	994.0	992.8	1008.1	997.9	997.9
42.5°	957.3	956.0	969.3	957.0	957.0
45°	900.9	898.4	907.3	895.7	893.2
47.5°	839.4	836.9	842.5	829.9	828.7
50°	797.5	795.0	797.5	786.0	784.8
52.5°	754.7	750.2	750.6	739.1	738.8
55°	689.1	680.3	680.1	669.9	669.9
57.5°	619.7	608.2	609.2	600.5	599.2
60°	571.7	559.2	560.2	552.5	551.3
62.5°	524.7	510.2	513.2	504.5	504.3
65°	446.6	436.6	437.7	433.9	433.9
67.5°	371.6	362.4	369.0	366.0	365.7
70°	316.5	310.2	319.0	319.0	317.7
72.5°	265.4	265.2	276.1	276.2	276.9
75°	192.7	201.4	213.1	214.4	214.4
77.5°	128.6	144.1	157.0	157.5	157.2
80°	91.9	109.3	121.2	123.7	122.5
82.5°	62.3	80.7	90.6	93.1	91.9
85°	28.1	43.0	51.0	52.3	51.0
87.5°	8.4	18.1	22.2	22.7	20.7
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)