

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: P561543

Luminaire Tested: **SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561543
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

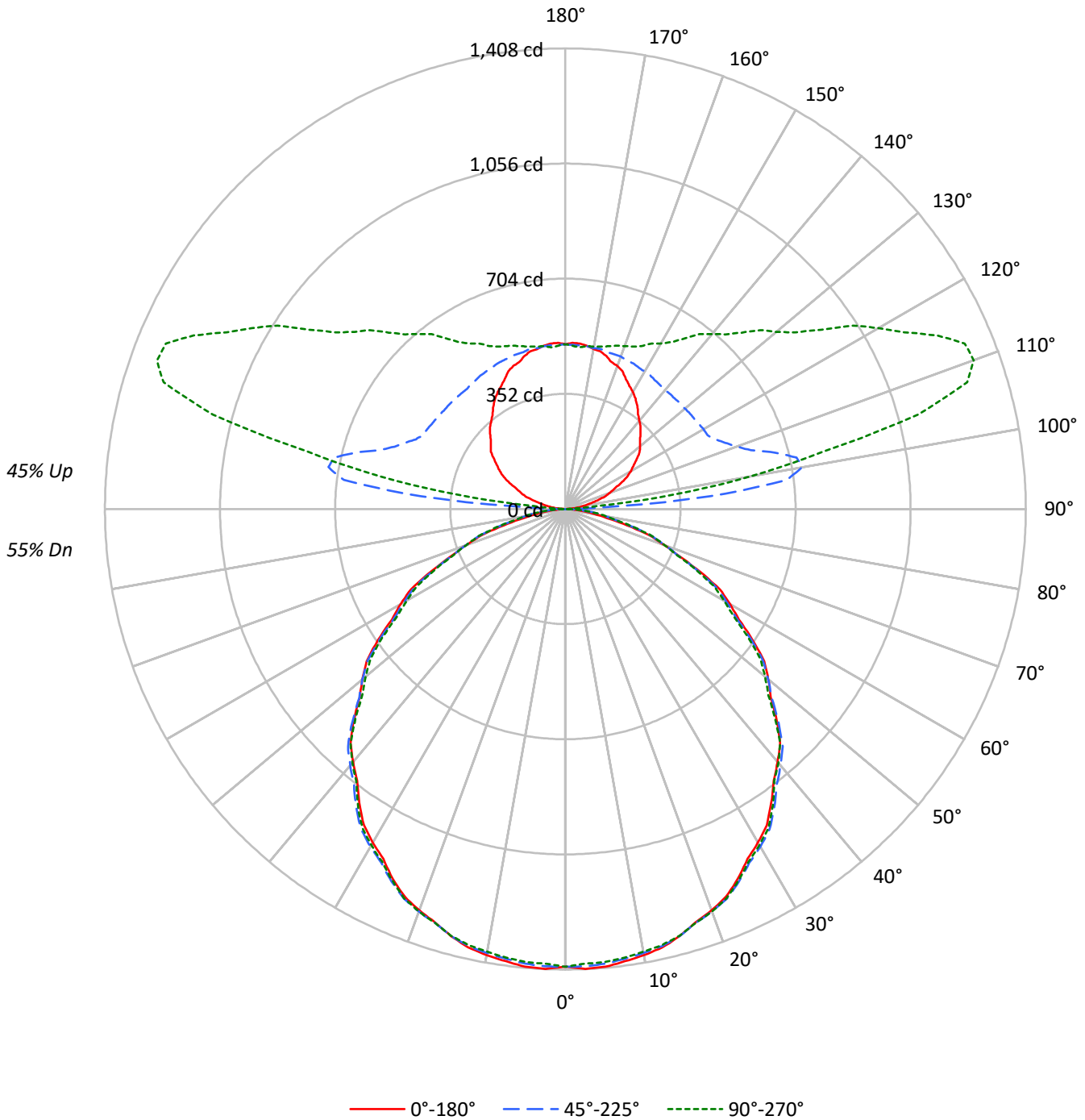
Lumens per Lamp: N/A
Luminaire Lumens: 6945.3 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.9
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	46		
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12911	12911	12911
5°	13009	12924	12877
10°	12977	12916	12880
15°	12909	12909	12897
20°	12824	12862	12862
25°	12703	12795	12756
30°	12548	12700	12645
35°	12361	12552	12464
40°	12157	12329	12204
45°	11936	12021	11834
50°	11625	11625	11438
55°	11255	11109	10943
60°	10712	10496	10330
65°	9900	9702	9619
70°	8667	8737	8702
75°	6976	7714	7760
80°	4957	6540	6610
85°	3017	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.9
10°-20°	380.1	5.5
20°-30°	575.6	8.3
30°-40°	690.0	9.9
40°-50°	703.6	10.1
50°-60°	614.2	8.8
60°-70°	439.7	6.3
70°-80°	226.5	3.3
80°-90°	57.3	0.8
90°-100°	229.3	3.3
100°-110°	652.5	9.4
110°-120°	625.2	9.0
120°-130°	494.8	7.1
130°-140°	397.1	5.7
140°-150°	310.9	4.5
150°-160°	227.5	3.3
160°-170°	140.9	2.0
170°-180°	47.8	0.7
0°-30°	1088.1	15.7
0°-40°	1778.1	25.6
0°-60°	3095.9	44.6
0°-90°	3819.3	55.0
90°-120°	1507.0	21.7
90°-150°	2709.8	39.0
90°-180°	3126.0	45.0
0°-180°	6945.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1405	1391	1396	1392	1390	133
15°	1352	1340	1352	1351	1350	381
25°	1248	1239	1257	1253	1253	574
35°	1098	1095	1114	1107	1107	686
45°	915	912	921	910	907	704
55°	700	691	691	680	680	624
65°	454	443	444	441	441	449
75°	196	204	216	218	218	211
85°	28	44	52	53	52	39
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1407.7	1395.6	1399.4	1396.2	1391.1
5°	1404.6	1390.7	1395.5	1391.6	1390.4
7.5°	1394.5	1380.6	1387.0	1384.4	1383.1
10°	1385.2	1371.2	1378.7	1376.1	1374.8
12.5°	1372.7	1359.8	1368.3	1365.7	1365.5
15°	1351.5	1340.1	1351.5	1351.4	1350.2
17.5°	1324.8	1314.4	1326.6	1327.4	1326.6
20°	1306.1	1294.7	1310.0	1308.7	1310.0
22.5°	1283.3	1273.9	1290.3	1287.0	1288.2
25°	1247.8	1238.9	1256.9	1253.0	1253.0
27.5°	1205.8	1199.5	1219.1	1214.9	1214.9
30°	1177.8	1171.5	1192.1	1186.9	1186.9
32.5°	1146.7	1142.4	1162.0	1155.8	1155.8
35°	1097.5	1095.0	1114.4	1106.6	1106.6
37.5°	1046.7	1044.4	1062.0	1052.6	1049.6
40°	1009.4	1008.1	1023.7	1013.3	1013.3
42.5°	972.1	970.8	984.3	971.8	971.8
45°	914.8	912.3	921.3	909.6	907.0
47.5°	852.4	849.8	855.5	842.7	841.5
50°	809.9	807.3	809.9	798.2	796.9
52.5°	766.3	761.8	762.2	750.5	750.2
55°	699.7	690.8	690.6	680.3	680.3
57.5°	629.2	617.6	618.6	609.8	608.5
60°	580.5	567.8	568.8	561.0	559.8
62.5°	532.8	518.1	521.2	512.3	512.1
65°	453.5	443.4	444.4	440.6	440.6
67.5°	377.3	367.9	374.7	371.6	371.4
70°	321.3	315.0	323.9	323.9	322.6
72.5°	269.5	269.3	280.4	280.4	281.2
75°	195.7	204.5	216.4	217.7	217.7
77.5°	130.6	146.3	159.4	159.9	159.6
80°	93.3	111.0	123.1	125.7	124.4
82.5°	63.2	82.0	92.0	94.6	93.3
85°	28.5	43.7	51.8	53.1	51.8
87.5°	8.3	17.4	20.7	20.7	18.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)