

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: P563063

Luminaire Tested: **SQ4-PC3-125U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563063
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

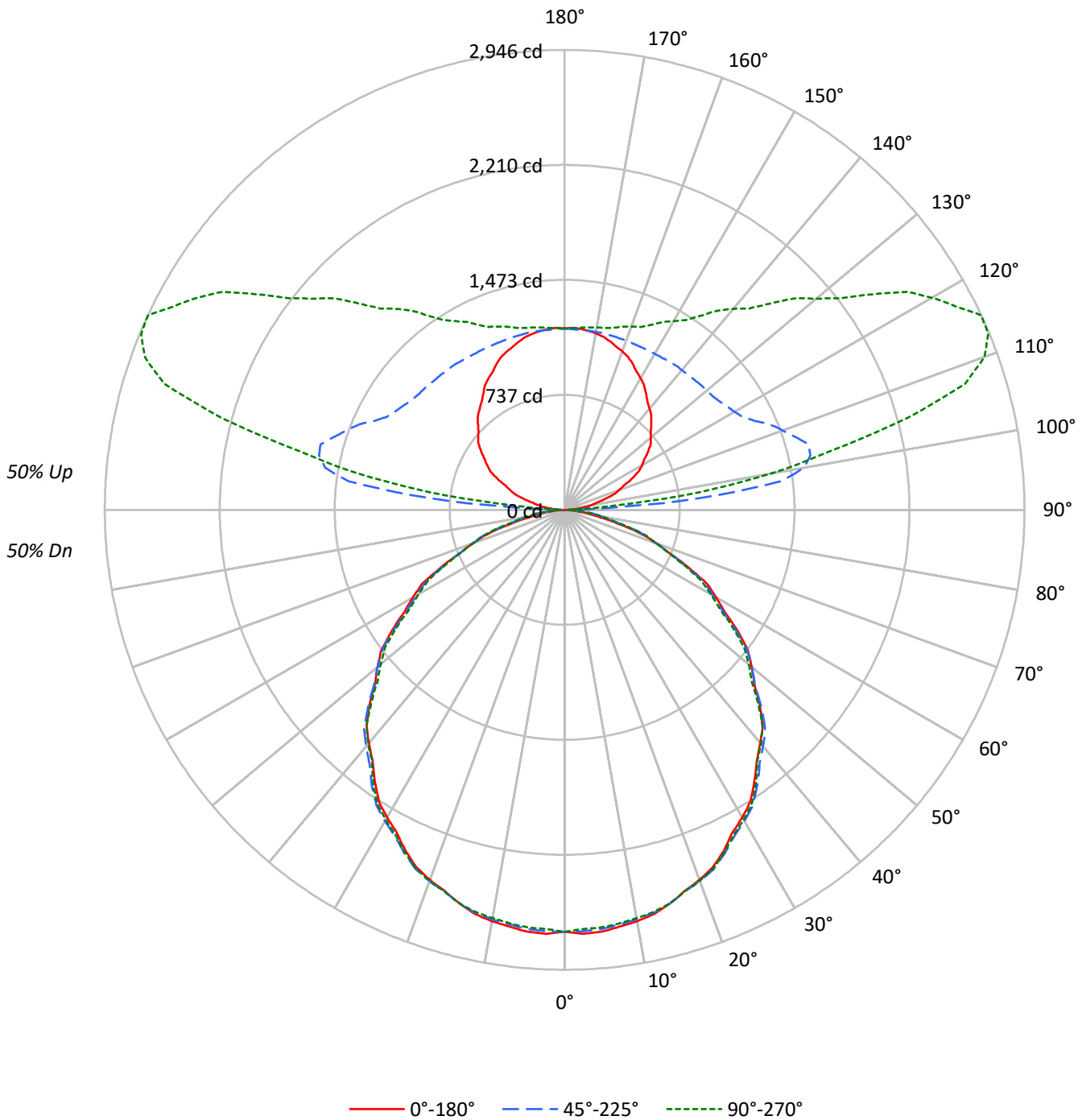
Lumens per Lamp: N/A
Luminaire Lumens: 14879.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	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°	16626	16626	16626
5°	16751	16643	16582
10°	16711	16633	16585
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16477	16426
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15715
45°	15370	15479	15240
50°	14969	14969	14729
55°	14493	14305	14091
60°	13794	13517	13300
65°	12749	12495	12385
70°	11163	11252	11207
75°	8981	9934	9993
80°	6383	8423	8512
85°	3889	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.7
10°-20°	734.1	4.9
20°-30°	1111.7	7.5
30°-40°	1332.8	9.0
40°-50°	1359.0	9.1
50°-60°	1186.3	8.0
60°-70°	849.3	5.7
70°-80°	437.5	2.9
80°-90°	113.3	0.8
90°-100°	543.4	3.7
100°-110°	1463.8	9.8
110°-120°	1536.2	10.3
120°-130°	1246.6	8.4
130°-140°	977.7	6.6
140°-150°	750.6	5.0
150°-160°	539.7	3.6
160°-170°	329.7	2.2
170°-180°	111.2	0.7
0°-30°	2101.7	14.1
0°-40°	3434.5	23.1
0°-60°	5979.9	40.2
0°-90°	7380.0	49.6
90°-120°	3543.5	23.8
90°-150°	6518.4	43.8
90°-180°	7499.0	50.4
0°-180°	14879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2703	2703	2703	2703	2703	
5°	2713	2686	2696	2688	2686	258
15°	2610	2588	2610	2610	2608	736
25°	2410	2393	2428	2420	2420	1109
35°	2120	2115	2152	2137	2137	1326
45°	1767	1762	1780	1757	1752	1360
55°	1352	1334	1334	1314	1314	1205
65°	876	856	858	851	851	866
75°	378	395	418	420	420	408
85°	55	84	100	103	100	75
90°	3	9	18	19	19	8
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2719.1	2695.6	2703.1	2696.9	2687.1
5°	2713.1	2686.2	2695.6	2688.0	2685.6
7.5°	2693.6	2666.7	2679.1	2674.0	2671.6
10°	2675.6	2648.6	2663.1	2658.0	2655.5
12.5°	2651.5	2626.6	2643.0	2638.0	2637.5
15°	2610.5	2588.5	2610.5	2610.4	2608.0
17.5°	2558.9	2538.9	2562.4	2563.9	2562.4
20°	2522.9	2500.9	2530.4	2528.0	2530.4
22.5°	2478.8	2460.7	2492.4	2485.9	2488.4
25°	2410.3	2393.1	2427.8	2420.3	2420.3
27.5°	2329.2	2316.9	2354.7	2346.7	2346.7
30°	2275.1	2262.9	2302.6	2292.6	2292.6
32.5°	2215.0	2206.7	2244.6	2232.6	2232.6
35°	2119.9	2115.0	2152.5	2137.4	2137.4
37.5°	2021.8	2017.4	2051.4	2033.2	2027.3
40°	1949.7	1947.3	1977.3	1957.2	1957.2
42.5°	1877.7	1875.2	1901.2	1877.2	1877.2
45°	1767.0	1762.1	1779.5	1756.9	1752.0
47.5°	1646.4	1641.5	1652.4	1627.8	1625.4
50°	1564.3	1559.4	1564.3	1541.7	1539.3
52.5°	1480.2	1471.4	1472.2	1449.6	1449.2
55°	1351.5	1334.4	1334.0	1314.0	1314.0
57.5°	1215.4	1192.9	1194.9	1177.8	1175.3
60°	1121.3	1096.8	1098.8	1083.7	1081.2
62.5°	1029.2	1000.8	1006.7	989.6	989.1
65°	876.0	856.4	858.5	851.0	851.0
67.5°	728.8	710.7	723.8	717.8	717.3
70°	620.7	608.5	625.7	625.7	623.2
72.5°	520.6	520.1	541.6	541.7	543.1
75°	377.9	395.1	418.0	420.5	420.5
77.5°	252.3	282.6	307.9	308.8	308.4
80°	180.2	214.5	237.8	242.7	240.3
82.5°	122.1	158.4	177.7	182.7	180.2
85°	55.1	84.4	100.1	102.6	100.1
87.5°	16.6	35.4	43.6	43.8	39.9
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)