

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: P563355

Luminaire Tested: **SQ4-PP3-050U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563355
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

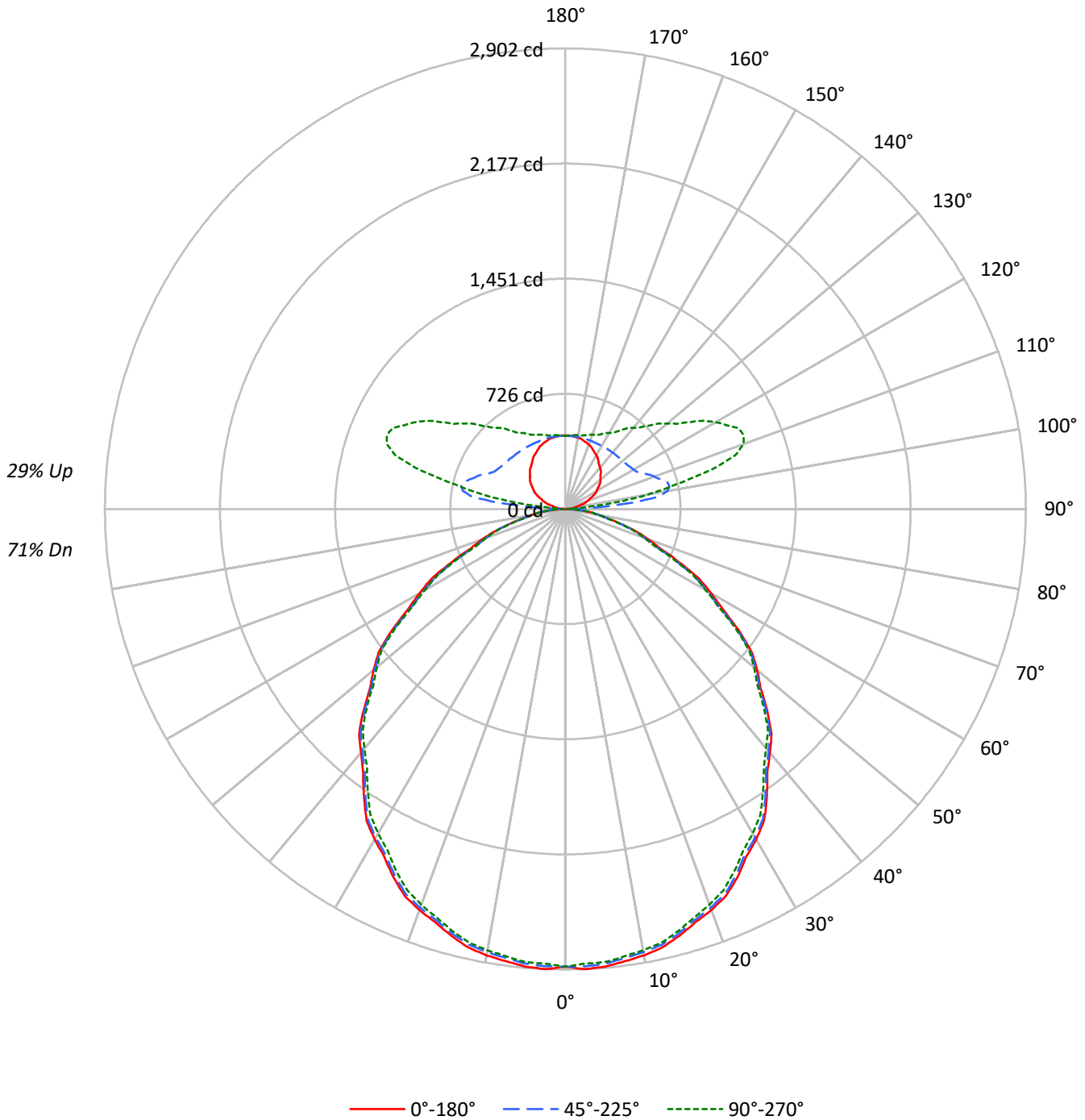
Lumens per Lamp: N/A
Luminaire Lumens: 10400.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17102
30°	17071	16982	16766
35°	16624	16511	16302
40°	16093	15991	15809
45°	15653	15543	15389
50°	15091	14995	14850
55°	14311	14121	14013
60°	13027	12655	12592
65°	11477	10998	10962
70°	9909	9499	9499
75°	8529	8408	8289
80°	7520	7608	7431
85°	5886	6422	6422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	2.6
10°-20°	778.6	7.5
20°-30°	1166.3	11.2
30°-40°	1368.0	13.2
40°-50°	1372.3	13.2
50°-60°	1170.7	11.3
60°-70°	763.5	7.3
70°-80°	383.0	3.7
80°-90°	107.8	1.0
90°-100°	221.9	2.1
100°-110°	602.8	5.8
110°-120°	619.7	6.0
120°-130°	495.5	4.8
130°-140°	389.3	3.7
140°-150°	298.5	2.9
150°-160°	214.7	2.1
160°-170°	131.3	1.3
170°-180°	44.2	0.4
0°-30°	2217.6	21.3
0°-40°	3585.6	34.5
0°-60°	6128.5	58.9
0°-90°	7382.7	71.0
90°-120°	1444.4	13.9
90°-150°	2627.7	25.3
90°-180°	3018.0	29.0
0°-180°	10400.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2894	2867	2876	2866	2866	275
15°	2783	2756	2768	2757	2752	785
25°	2563	2533	2545	2522	2520	1178
35°	2214	2192	2199	2174	2171	1383
45°	1800	1787	1787	1769	1769	1386
55°	1334	1330	1317	1309	1307	1186
65°	789	774	756	751	753	787
75°	359	359	354	351	349	389
85°	83	91	91	91	91	98
90°	2	6	10	13	13	5
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2902.0	2878.3	2883.8	2879.5	2867.6
5°	2893.9	2866.8	2876.2	2866.1	2866.1
7.5°	2874.2	2844.6	2854.0	2843.9	2843.4
10°	2856.0	2826.4	2835.8	2825.6	2823.2
12.5°	2829.7	2800.1	2811.5	2799.4	2798.9
15°	2782.7	2755.5	2767.6	2757.3	2752.4
17.5°	2729.7	2700.0	2714.5	2700.3	2698.3
20°	2689.2	2659.6	2674.0	2653.8	2653.8
22.5°	2640.7	2611.0	2627.5	2601.3	2601.3
25°	2562.8	2533.2	2545.1	2522.3	2519.9
27.5°	2470.3	2441.2	2453.7	2427.9	2427.4
30°	2403.6	2376.4	2391.0	2363.1	2360.6
32.5°	2330.8	2305.6	2316.2	2288.3	2285.8
35°	2214.0	2191.8	2198.9	2173.6	2171.1
37.5°	2091.2	2068.5	2076.6	2054.8	2053.8
40°	2004.3	1989.4	1991.6	1973.8	1968.9
42.5°	1923.4	1906.6	1908.7	1891.0	1890.0
45°	1799.5	1787.2	1786.9	1769.2	1769.2
47.5°	1668.1	1658.7	1656.0	1641.3	1640.8
50°	1577.1	1569.7	1567.0	1554.3	1551.9
52.5°	1482.1	1478.6	1470.0	1459.3	1458.8
55°	1334.5	1329.6	1316.8	1309.2	1306.7
57.5°	1174.3	1164.4	1150.0	1138.9	1140.9
60°	1059.0	1049.1	1028.7	1023.6	1023.6
62.5°	947.8	935.9	915.4	908.5	912.4
65°	788.6	773.7	755.7	750.7	753.2
67.5°	644.0	630.7	611.1	611.1	609.1
70°	551.0	543.6	528.2	528.2	528.2
72.5°	468.1	464.6	453.4	453.4	451.4
75°	358.9	358.9	353.8	351.3	348.8
77.5°	268.9	269.9	267.4	264.8	260.3
80°	212.3	217.2	214.8	212.2	209.8
82.5°	159.7	164.7	164.3	159.7	159.2
85°	83.4	90.8	91.0	91.0	91.0
87.5°	22.5	31.3	34.4	35.1	37.0
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)