

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: P563259

Luminaire Tested: **SQ4-PP3-025U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563259
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

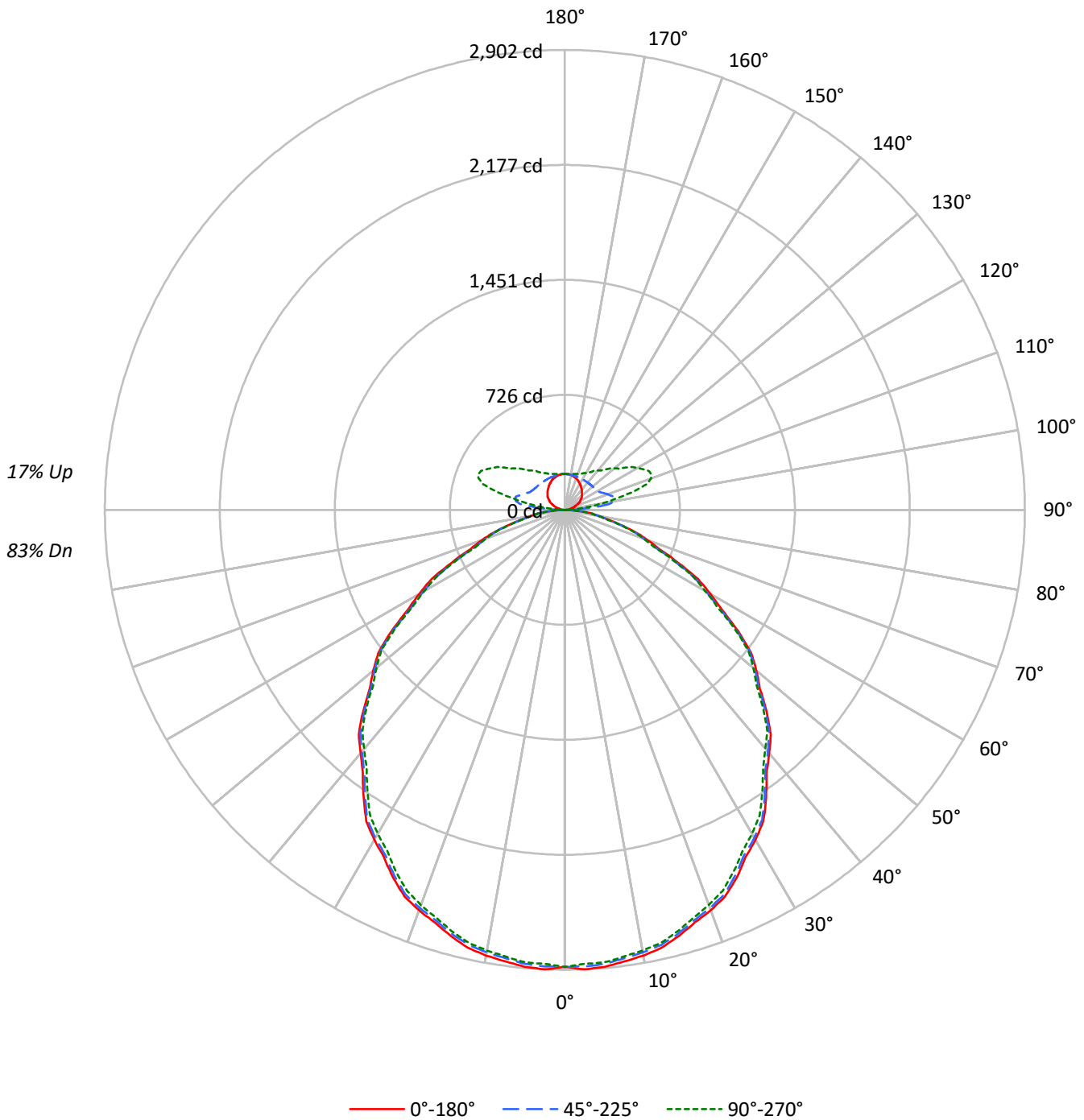
Lumens per Lamp: N/A
Luminaire Lumens: 8845.6 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83																			83									
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71																			71									
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60																			60									
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51																			51									
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44																			44									
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38																			38									
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34																			34									
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30																			30									
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27																			27									
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24																			24									
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22																			22									

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	3.1
10°-20°	778.6	8.8
20°-30°	1166.3	13.2
30°-40°	1368.0	15.5
40°-50°	1372.3	15.5
50°-60°	1170.7	13.2
60°-70°	763.5	8.6
70°-80°	383.0	4.3
80°-90°	107.2	1.2
90°-100°	110.0	1.2
100°-110°	289.3	3.3
110°-120°	300.0	3.4
120°-130°	240.6	2.7
130°-140°	188.8	2.1
140°-150°	144.9	1.6
150°-160°	104.4	1.2
160°-170°	63.9	0.7
170°-180°	21.6	0.2
0°-30°	2217.6	25.1
0°-40°	3585.6	40.5
0°-60°	6128.5	69.3
0°-90°	7382.2	83.5
90°-120°	699.3	7.9
90°-150°	1273.6	14.4
90°-180°	1463.0	16.5
0°-180°	8845.6	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°	1	4	12	6	6	4
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

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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	31.0	34.7	33.6	35.5
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)