

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: P563184

Luminaire Tested: **SQ4-PP3-025U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563184
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-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

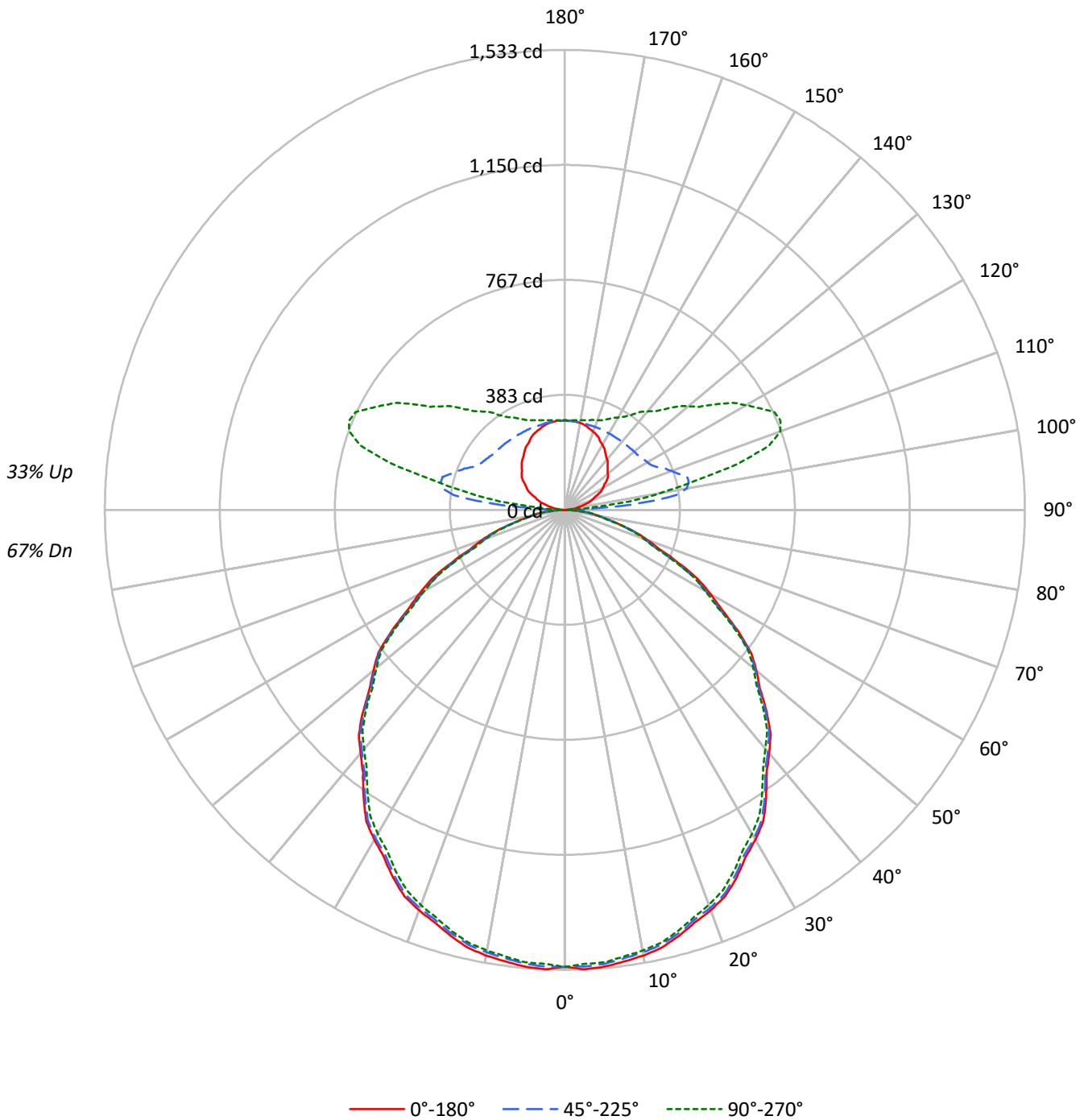
Lumens per Lamp: N/A
Luminaire Lumens: 5832.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7010
10°	7067	7017	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5978	5940	5883
55°	5669	5594	5551
60°	5161	5014	4989
65°	4546	4357	4342
70°	3925	3763	3763
75°	3379	3331	3283
80°	2978	3015	2943
85°	2334	2546	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	2.5
10°-20°	411.3	7.1
20°-30°	616.0	10.6
30°-40°	722.6	12.4
40°-50°	724.8	12.4
50°-60°	618.3	10.6
60°-70°	403.3	6.9
70°-80°	202.3	3.5
80°-90°	57.6	1.0
90°-100°	145.3	2.5
100°-110°	381.9	6.5
110°-120°	396.0	6.8
120°-130°	317.6	5.4
130°-140°	249.2	4.3
140°-150°	191.3	3.3
150°-160°	137.8	2.4
160°-170°	84.3	1.4
170°-180°	28.5	0.5
0°-30°	1171.3	20.1
0°-40°	1893.9	32.5
0°-60°	3237.1	55.5
0°-90°	3900.3	66.9
90°-120°	923.2	15.8
90°-150°	1681.3	28.8
90°-180°	1932.0	33.1
0°-180°	5832.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1529	1514	1519	1514	1514	145
15°	1470	1456	1462	1456	1454	415
25°	1354	1338	1344	1332	1331	622
35°	1170	1158	1162	1148	1147	731
45°	950	944	944	934	934	732
55°	705	702	696	692	690	626
65°	416	409	399	396	398	416
75°	190	190	187	186	184	206
85°	44	48	48	48	48	52
90°	2	6	15	8	8	3
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.3	1523.3	1523.3	1523.3	1523.3
2.5°	1532.9	1520.3	1523.3	1521.0	1514.7
5°	1528.6	1514.2	1519.2	1513.9	1513.9
7.5°	1518.2	1502.5	1507.5	1502.2	1501.9
10°	1508.6	1492.9	1497.9	1492.5	1491.2
12.5°	1494.7	1479.0	1485.1	1478.7	1478.4
15°	1469.9	1455.5	1461.8	1456.4	1453.8
17.5°	1441.8	1426.2	1433.8	1426.3	1425.3
20°	1420.5	1404.8	1412.4	1401.8	1401.8
22.5°	1394.8	1379.2	1387.9	1374.0	1374.0
25°	1353.7	1338.0	1344.4	1332.3	1331.0
27.5°	1304.8	1289.4	1296.0	1282.4	1282.1
30°	1269.6	1255.2	1262.9	1248.2	1246.9
32.5°	1231.2	1217.8	1223.4	1208.7	1207.4
35°	1169.5	1157.7	1161.5	1148.1	1146.8
37.5°	1104.6	1092.6	1096.8	1085.4	1084.8
40°	1058.7	1050.8	1052.0	1042.6	1040.0
42.5°	1015.9	1007.1	1008.2	998.8	998.3
45°	950.5	944.0	943.9	934.5	934.5
47.5°	881.1	876.1	874.7	867.0	866.7
50°	833.0	829.1	827.7	821.0	819.7
52.5°	782.9	781.0	776.4	770.8	770.6
55°	704.9	702.3	695.5	691.5	690.2
57.5°	620.2	615.0	607.4	601.6	602.6
60°	559.4	554.2	543.4	540.7	540.7
62.5°	500.6	494.4	483.5	479.9	481.9
65°	416.5	408.7	399.2	396.5	397.8
67.5°	340.2	333.1	322.8	322.8	321.7
70°	291.0	287.1	279.0	279.0	279.0
72.5°	247.2	245.4	239.5	239.5	238.4
75°	189.6	189.6	186.9	185.5	184.2
77.5°	142.0	142.6	141.2	139.9	137.5
80°	112.1	114.8	113.5	112.1	110.8
82.5°	84.4	87.0	86.8	84.4	84.1
85°	44.1	48.0	48.1	48.1	48.1
87.5°	12.1	17.1	20.1	18.6	19.7
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)