

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: P563208

Luminaire Tested: **SQ4-PP3-025U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563208
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-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

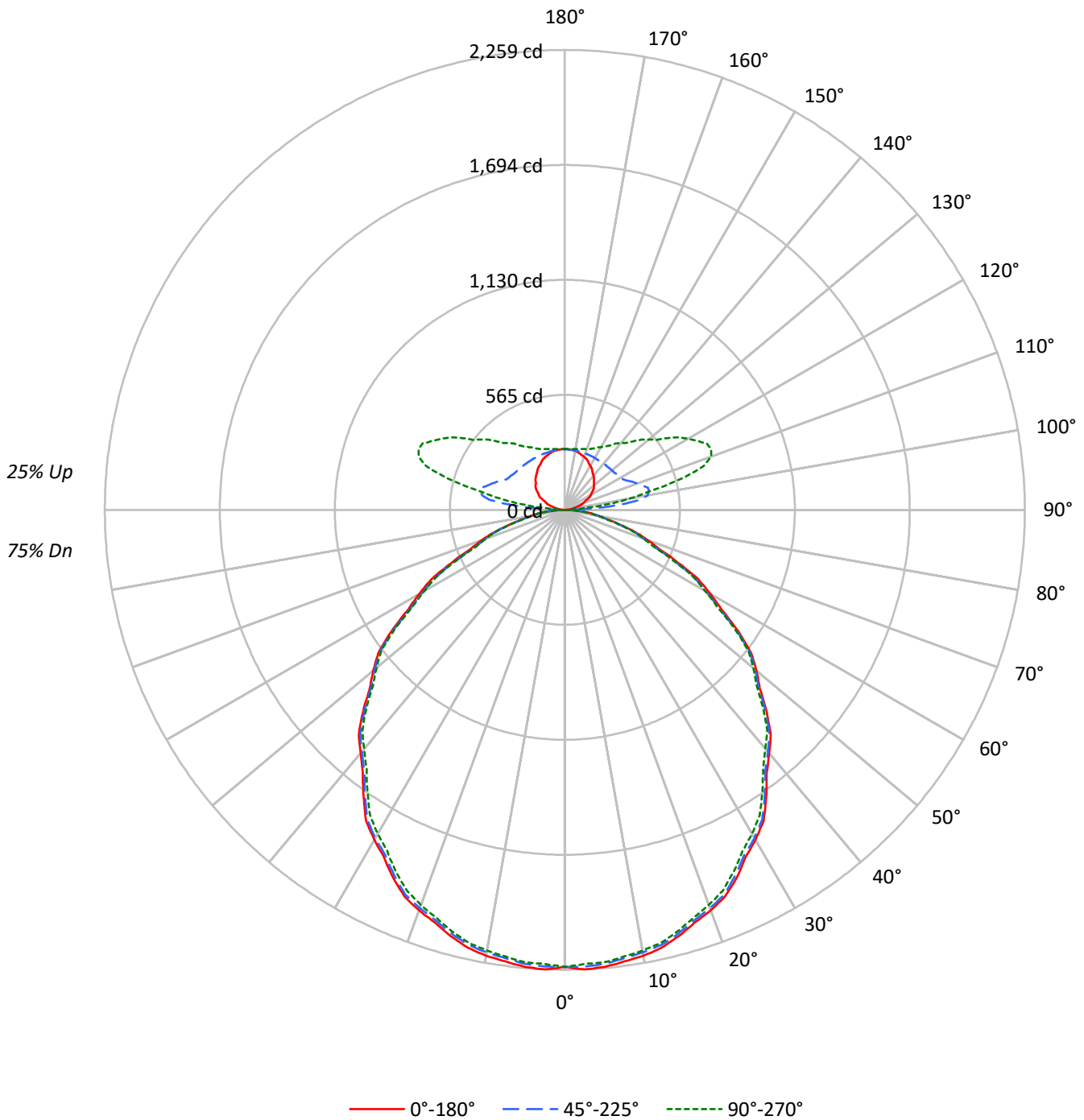
Lumens per Lamp: N/A
Luminaire Lumens: 7679.6 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	
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	0	
RCR																						
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54				
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39				
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27				
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10341	10296
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9641	9518
40°	9397	9337	9230
45°	9140	9075	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7606	7388	7352
65°	6701	6422	6401
70°	5785	5546	5546
75°	4980	4910	4839
80°	4391	4444	4338
85°	3435	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	2.8
10°-20°	606.2	7.9
20°-30°	908.0	11.8
30°-40°	1065.0	13.9
40°-50°	1068.3	13.9
50°-60°	911.4	11.9
60°-70°	594.4	7.7
70°-80°	298.2	3.9
80°-90°	84.1	1.1
90°-100°	145.3	1.9
100°-110°	381.9	5.0
110°-120°	396.0	5.2
120°-130°	317.6	4.1
130°-140°	249.2	3.2
140°-150°	191.3	2.5
150°-160°	137.8	1.8
160°-170°	84.3	1.1
170°-180°	28.5	0.4
0°-30°	1726.4	22.5
0°-40°	2791.4	36.3
0°-60°	4771.1	62.1
0°-90°	5747.8	74.8
90°-120°	923.2	12.0
90°-150°	1681.3	21.9
90°-180°	1932.0	25.2
0°-180°	7679.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2245	2245	2245	2245	2245	
5°	2253	2232	2239	2231	2231	214
15°	2166	2145	2155	2147	2143	611
25°	1995	1972	1981	1964	1962	917
35°	1724	1706	1712	1692	1690	1077
45°	1401	1391	1391	1377	1377	1079
55°	1039	1035	1025	1019	1017	923
65°	614	602	588	584	586	613
75°	279	279	276	274	272	303
85°	65	71	71	71	71	76
90°	2	6	15	8	8	4
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°	2245.1	2245.1	2245.1	2245.1	2245.1
2.5°	2259.3	2240.8	2245.1	2241.7	2232.5
5°	2253.0	2231.8	2239.2	2231.3	2231.3
7.5°	2237.6	2214.5	2221.9	2214.0	2213.6
10°	2223.5	2200.4	2207.7	2199.8	2197.9
12.5°	2203.0	2179.9	2188.8	2179.4	2179.0
15°	2166.4	2145.2	2154.6	2146.6	2142.8
17.5°	2125.1	2102.0	2113.3	2102.2	2100.7
20°	2093.6	2070.5	2081.8	2066.0	2066.0
22.5°	2055.8	2032.7	2045.6	2025.1	2025.1
25°	1995.2	1972.1	1981.4	1963.7	1961.8
27.5°	1923.2	1900.5	1910.2	1890.1	1889.7
30°	1871.2	1850.1	1861.4	1839.7	1837.8
32.5°	1814.6	1795.0	1803.2	1781.5	1779.5
35°	1723.7	1706.4	1711.9	1692.1	1690.2
37.5°	1628.0	1610.3	1616.6	1599.7	1598.9
40°	1560.4	1548.8	1550.5	1536.7	1532.8
42.5°	1497.4	1484.3	1486.0	1472.2	1471.4
45°	1401.0	1391.4	1391.1	1377.4	1377.4
47.5°	1298.7	1291.3	1289.2	1277.8	1277.4
50°	1227.8	1222.0	1219.9	1210.1	1208.1
52.5°	1153.8	1151.1	1144.4	1136.1	1135.7
55°	1038.9	1035.1	1025.1	1019.2	1017.3
57.5°	914.2	906.5	895.3	886.7	888.2
60°	824.4	816.8	800.8	796.9	796.9
62.5°	737.9	728.6	712.7	707.2	710.3
65°	613.9	602.4	588.3	584.4	586.4
67.5°	501.4	491.0	475.8	475.7	474.2
70°	428.9	423.2	411.2	411.2	411.2
72.5°	364.4	361.7	353.0	353.0	351.4
75°	279.4	279.4	275.5	273.5	271.5
77.5°	209.4	210.1	208.2	206.1	202.7
80°	165.3	169.1	167.3	165.2	163.3
82.5°	124.4	128.2	127.9	124.3	124.0
85°	64.9	70.7	70.8	70.8	70.8
87.5°	17.7	24.6	28.2	26.7	28.3
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)