

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: P518575

Luminaire Tested: **SQ4-BB-075U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518575
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

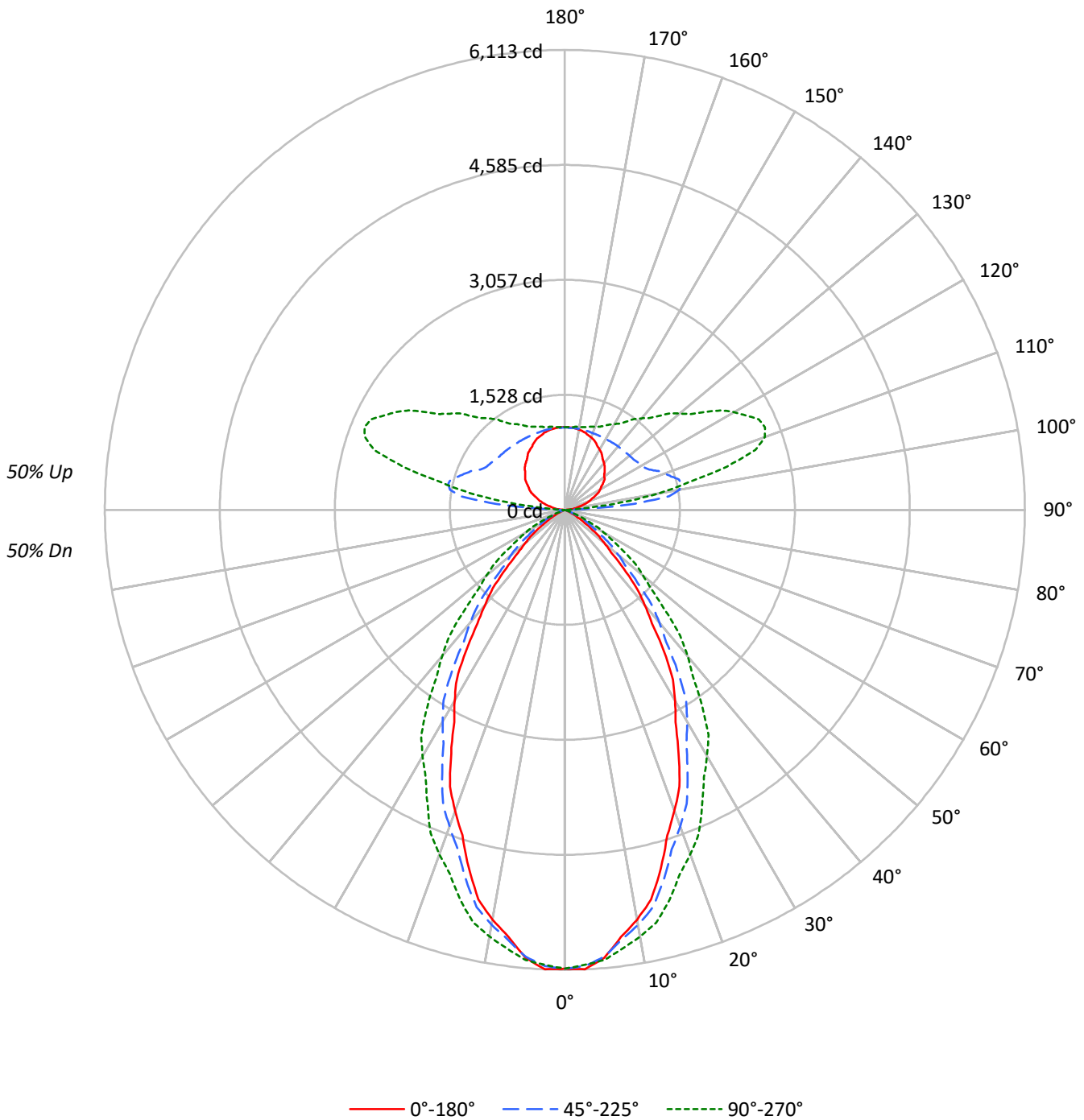
Lumens per Lamp: N/A
Luminaire Lumens: 14425.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 194.8
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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50				
1	100	96	93	90	92	89	86	84	76	74	72	64	63	61	53	52	51	46				
2	92	86	81	77	85	80	76	72	69	66	63	58	56	54	49	47	46	42				
3	85	77	71	66	79	72	67	62	62	58	55	53	50	48	45	43	41	38				
4	79	70	63	58	73	65	59	55	57	52	49	49	46	43	41	39	37	34				
5	73	63	56	51	68	59	53	48	52	47	43	45	41	39	38	36	34	31				
6	68	58	50	45	63	54	48	43	47	43	39	41	38	35	36	33	31	28				
7	64	53	46	41	59	50	43	39	44	39	35	38	34	32	33	30	28	26				
8	60	48	41	37	55	46	39	35	40	35	32	35	32	29	31	28	26	24				
9	56	45	38	33	52	42	36	32	37	33	29	33	29	27	29	26	24	22				
10	52	41	35	30	49	39	33	29	35	30	27	31	27	25	27	24	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18757	18757	18757
5°	18455	18409	18546
10°	17267	17498	17986
15°	15698	16196	17098
20°	13934	14659	15943
25°	12135	13096	14648
30°	10394	11536	13422
35°	8619	9793	11942
40°	6622	7830	10176
45°	4787	5929	8188
50°	3261	4418	6494
55°	2120	3196	5047
60°	1216	2251	3648
65°	322	1374	1847
70°	159	424	531
75°	70	36	0
80°	53	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.6	3.9
10°-20°	1423.4	9.9
20°-30°	1781.9	12.4
30°-40°	1645.9	11.4
40°-50°	1106.0	7.7
50°-60°	571.3	4.0
60°-70°	178.9	1.2
70°-80°	11.3	0.1
80°-90°	3.0	0.0
90°-100°	517.4	3.6
100°-110°	1423.6	9.9
110°-120°	1469.4	10.2
120°-130°	1177.3	8.2
130°-140°	924.7	6.4
140°-150°	708.6	4.9
150°-160°	509.5	3.5
160°-170°	311.5	2.2
170°-180°	105.0	0.7
0°-30°	3761.9	26.1
0°-40°	5407.8	37.5
0°-60°	7085.0	49.1
0°-90°	7278.3	50.5
90°-120°	3410.4	23.6
90°-150°	6220.9	43.1
90°-180°	7147.0	49.5
0°-180°	14425.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6099	6099	6099	6099	6099	
5°	5978	5917	5963	5984	6007	554
15°	4930	4913	5087	5258	5370	1373
25°	3576	3605	3859	4123	4317	1640
35°	2296	2353	2608	2915	3181	1422
45°	1101	1167	1363	1629	1882	864
55°	395	462	596	765	941	369
65°	44	85	189	228	254	75
75°	6	6	3	0	0	8
85°	0	0	0	0	0	1
90°	2	9	16	21	21	5
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6098.9	6098.9	6098.9	6098.9	6098.9
2.5°	6113.1	6055.4	6070.6	6070.2	6054.1
5°	5977.9	5917.4	5963.2	5984.4	6007.4
7.5°	5725.4	5678.0	5766.1	5832.1	5880.0
10°	5529.4	5489.1	5603.2	5693.2	5759.6
12.5°	5302.8	5271.7	5409.6	5533.1	5618.0
15°	4930.5	4913.2	5086.9	5257.6	5370.1
17.5°	4531.5	4531.0	4729.2	4941.2	5076.8
20°	4257.7	4266.4	4479.0	4712.8	4871.5
22.5°	3983.9	4004.1	4231.2	4474.9	4656.7
25°	3576.1	3605.0	3859.4	4123.4	4316.7
27.5°	3184.3	3226.4	3494.1	3768.6	4004.0
30°	2927.0	2976.1	3248.6	3537.4	3779.7
32.5°	2674.4	2732.7	2998.4	3303.8	3550.8
35°	2295.6	2353.3	2608.3	2915.3	3180.8
37.5°	1904.3	1960.9	2210.0	2512.2	2798.9
40°	1649.4	1712.9	1950.4	2243.2	2534.6
42.5°	1418.1	1481.5	1704.9	1992.6	2267.8
45°	1100.6	1166.9	1363.2	1628.6	1882.5
47.5°	837.4	909.5	1081.7	1321.8	1553.2
50°	681.6	753.7	923.5	1135.1	1357.3
52.5°	556.5	626.3	779.6	978.9	1182.6
55°	395.4	461.7	596.0	765.3	941.2
57.5°	273.2	330.4	450.9	592.1	730.0
60°	197.7	252.5	365.9	480.6	593.1
62.5°	131.6	181.8	292.7	380.6	456.2
65°	44.3	84.6	188.8	227.8	253.8
67.5°	22.4	27.0	99.1	104.6	113.3
70°	17.7	17.7	47.2	50.4	59.0
72.5°	13.0	13.0	18.9	24.2	26.0
75°	5.9	5.9	3.0	0.0	0.0
77.5°	3.0	3.0	2.4	0.0	0.0
80°	3.0	3.0	0.0	0.0	0.0
82.5°	0.6	0.6	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.8	3.3	4.2	4.2
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)