

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: P518581

Luminaire Tested: **SQ4-BB-075U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518581
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

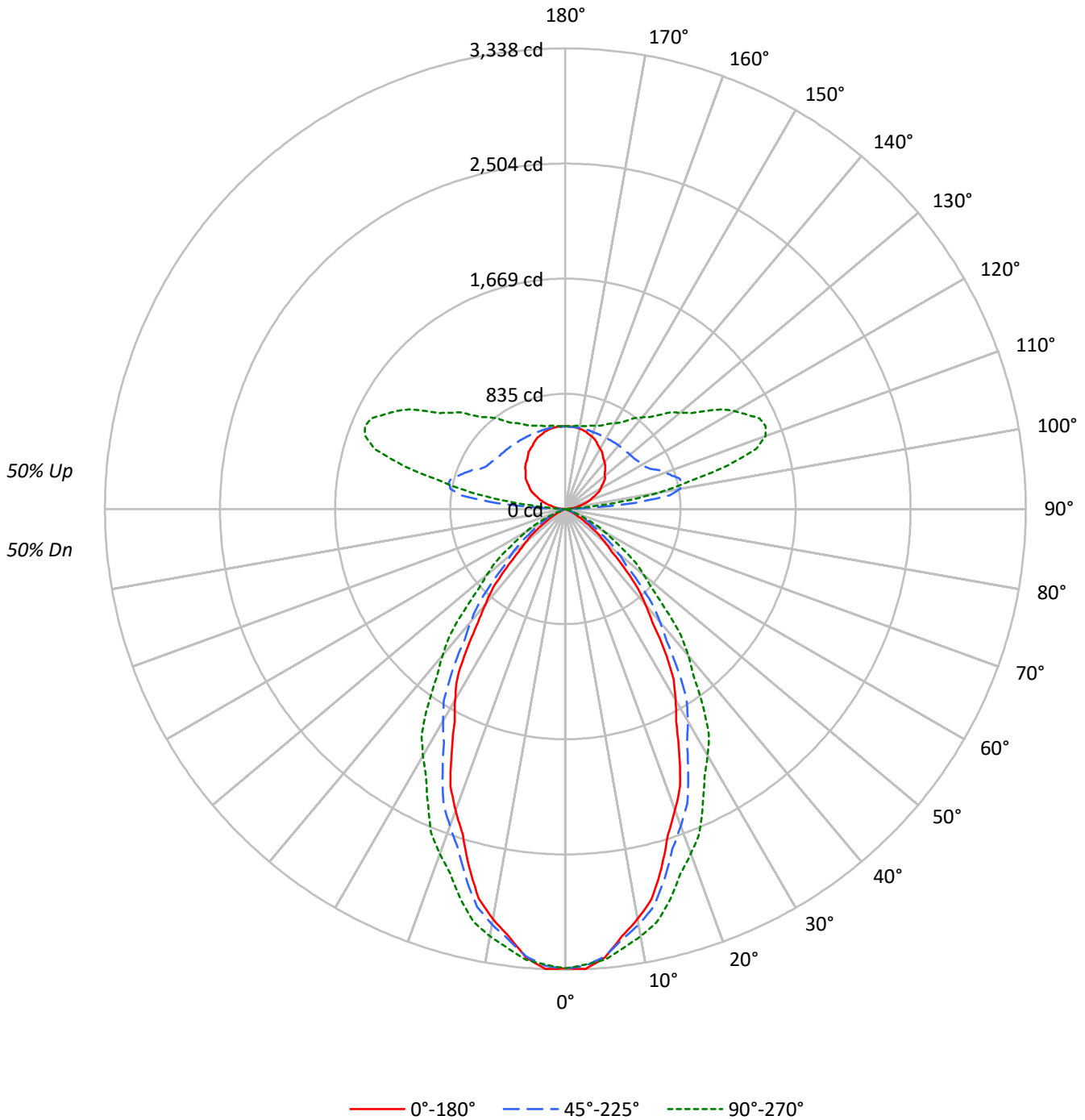
Lumens per Lamp: N/A
Luminaire Lumens: 7875.5 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	20480	20480	20480
5°	20151	20101	20250
10°	18854	19106	19640
15°	17141	17685	18669
20°	15215	16006	17409
25°	13250	14300	15994
30°	11350	12597	14656
35°	9411	10692	13040
40°	7230	8550	11111
45°	5227	6473	8940
50°	3561	4825	7091
55°	2315	3489	5511
60°	1327	2458	3983
65°	352	1501	2016
70°	174	464	579
75°	76	38	0
80°	57	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	3.9
10°-20°	777.1	9.9
20°-30°	972.9	12.4
30°-40°	898.6	11.4
40°-50°	603.8	7.7
50°-60°	311.9	4.0
60°-70°	97.7	1.2
70°-80°	6.2	0.1
80°-90°	1.6	0.0
90°-100°	282.5	3.6
100°-110°	777.2	9.9
110°-120°	802.2	10.2
120°-130°	642.7	8.2
130°-140°	504.8	6.4
140°-150°	386.9	4.9
150°-160°	278.2	3.5
160°-170°	170.1	2.2
170°-180°	57.3	0.7
0°-30°	2053.8	26.1
0°-40°	2952.4	37.5
0°-60°	3868.1	49.1
0°-90°	3973.6	50.5
90°-120°	1861.9	23.6
90°-150°	3396.4	43.1
90°-180°	3902.0	49.5
0°-180°	7875.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3330	3330	3330	3330	3330	
5°	3264	3231	3256	3267	3280	303
15°	2692	2682	2777	2870	2932	750
25°	1952	1968	2107	2251	2357	895
35°	1253	1285	1424	1592	1737	776
45°	601	637	744	889	1028	472
55°	216	252	325	418	514	201
65°	24	46	103	124	138	41
75°	3	3	2	0	0	5
85°	0	0	0	0	0	0
90°	1	5	9	12	12	3
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3329.7	3329.7	3329.7	3329.7	3329.7
2.5°	3337.5	3306.0	3314.3	3314.1	3305.2
5°	3263.7	3230.6	3255.6	3267.2	3279.8
7.5°	3125.8	3100.0	3148.0	3184.1	3210.2
10°	3018.8	2996.8	3059.1	3108.3	3144.5
12.5°	2895.1	2878.1	2953.4	3020.8	3067.2
15°	2691.8	2682.4	2777.2	2870.4	2931.8
17.5°	2474.0	2473.7	2582.0	2697.7	2771.7
20°	2324.5	2329.3	2445.3	2573.0	2659.6
22.5°	2175.0	2186.1	2310.0	2443.1	2542.3
25°	1952.4	1968.2	2107.1	2251.2	2356.7
27.5°	1738.5	1761.5	1907.6	2057.5	2186.0
30°	1598.0	1624.8	1773.6	1931.3	2063.6
32.5°	1460.1	1491.9	1637.0	1803.7	1938.6
35°	1253.3	1284.8	1424.0	1591.6	1736.6
37.5°	1039.7	1070.5	1206.6	1371.5	1528.1
40°	900.5	935.1	1064.8	1224.7	1383.8
42.5°	774.2	808.9	930.8	1087.9	1238.1
45°	600.9	637.1	744.2	889.1	1027.8
47.5°	457.2	496.6	590.6	721.7	848.0
50°	372.1	411.5	504.2	619.7	741.0
52.5°	303.8	341.9	425.6	534.4	645.6
55°	215.9	252.1	325.4	417.8	513.9
57.5°	149.2	180.4	246.1	323.2	398.5
60°	107.9	137.9	199.8	262.4	323.8
62.5°	71.8	99.3	159.8	207.8	249.0
65°	24.2	46.2	103.1	124.4	138.5
67.5°	12.2	14.8	54.1	57.1	61.9
70°	9.7	9.7	25.8	27.5	32.2
72.5°	7.1	7.1	10.3	13.2	14.2
75°	3.2	3.2	1.6	0.0	0.0
77.5°	1.6	1.6	1.3	0.0	0.0
80°	1.6	1.6	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	1.0	1.8	2.3	2.3
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)