

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: P518585

Luminaire Tested: **SQ4-BB-075U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518585
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

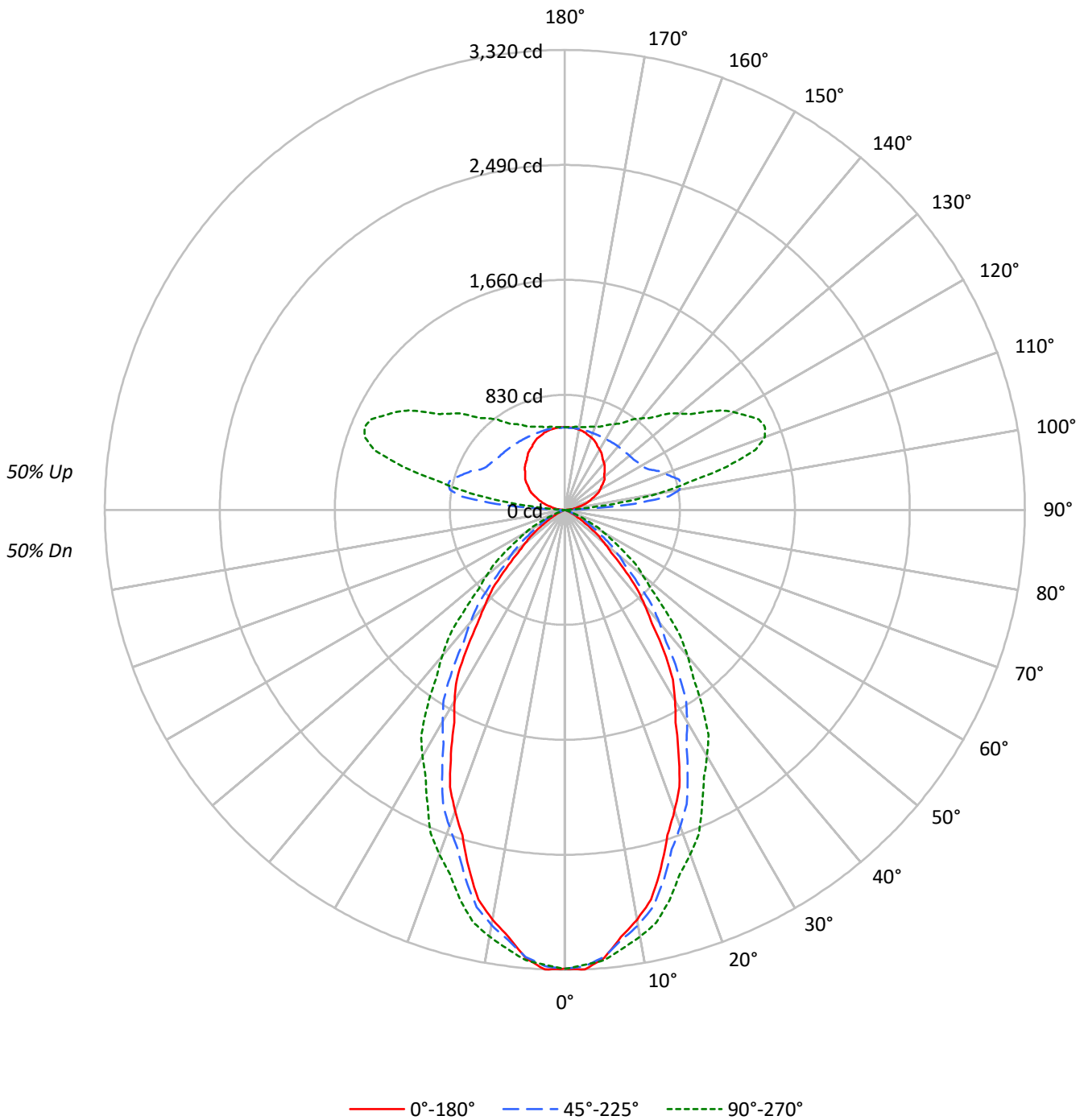
Lumens per Lamp: N/A
Luminaire Lumens: 7835.5 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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				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	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°	20376	20376	20376
5°	20049	19999	20147
10°	18759	19009	19540
15°	17054	17595	18575
20°	15138	15925	17320
25°	13183	14228	15913
30°	11292	12533	14582
35°	9363	10638	12973
40°	7193	8506	11054
45°	5200	6441	8894
50°	3542	4801	7055
55°	2303	3471	5483
60°	1321	2444	3962
65°	349	1493	2006
70°	173	460	577
75°	76	38	0
80°	57	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	3.9
10°-20°	773.2	9.9
20°-30°	967.9	12.4
30°-40°	894.0	11.4
40°-50°	600.7	7.7
50°-60°	310.3	4.0
60°-70°	97.2	1.2
70°-80°	6.2	0.1
80°-90°	1.6	0.0
90°-100°	281.1	3.6
100°-110°	773.3	9.9
110°-120°	798.1	10.2
120°-130°	639.5	8.2
130°-140°	502.3	6.4
140°-150°	384.9	4.9
150°-160°	276.7	3.5
160°-170°	169.2	2.2
170°-180°	57.0	0.7
0°-30°	2043.4	26.1
0°-40°	2937.4	37.5
0°-60°	3848.5	49.1
0°-90°	3953.4	50.5
90°-120°	1852.5	23.6
90°-150°	3379.1	43.1
90°-180°	3882.0	49.5
0°-180°	7835.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3313	3313	3313	3313	3313	
5°	3247	3214	3239	3251	3263	301
15°	2678	2669	2763	2856	2917	746
25°	1942	1958	2096	2240	2345	891
35°	1247	1278	1417	1584	1728	772
45°	598	634	740	885	1022	470
55°	215	251	324	416	511	200
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	11	11	3
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3312.8	3312.8	3312.8	3312.8	3312.8
2.5°	3320.5	3289.2	3297.4	3297.2	3288.5
5°	3247.1	3214.2	3239.1	3250.6	3263.1
7.5°	3109.9	3084.2	3132.0	3167.9	3193.9
10°	3003.5	2981.6	3043.6	3092.5	3128.5
12.5°	2880.4	2863.5	2938.4	3005.5	3051.6
15°	2678.1	2668.7	2763.1	2855.8	2917.0
17.5°	2461.5	2461.1	2568.8	2684.0	2757.6
20°	2312.7	2317.4	2432.9	2559.9	2646.1
22.5°	2164.0	2175.0	2298.3	2430.7	2529.4
25°	1942.5	1958.2	2096.4	2239.8	2344.8
27.5°	1729.7	1752.5	1897.9	2047.0	2174.9
30°	1589.9	1616.5	1764.6	1921.4	2053.1
32.5°	1452.7	1484.4	1628.7	1794.6	1928.7
35°	1246.9	1278.3	1416.8	1583.6	1727.7
37.5°	1034.4	1065.1	1200.4	1364.6	1520.3
40°	895.9	930.4	1059.4	1218.5	1376.7
42.5°	770.3	804.7	926.1	1082.3	1231.9
45°	597.8	633.9	740.5	884.6	1022.5
47.5°	454.9	494.0	587.6	718.0	843.7
50°	370.2	409.4	501.7	616.6	737.3
52.5°	302.3	340.2	423.4	531.7	642.4
55°	214.8	250.8	323.7	415.7	511.3
57.5°	148.4	179.4	244.9	321.6	396.5
60°	107.4	137.2	198.7	261.0	322.1
62.5°	71.5	98.7	159.0	206.7	247.8
65°	24.0	46.0	102.6	123.7	137.8
67.5°	12.2	14.7	53.9	56.8	61.5
70°	9.6	9.6	25.6	27.4	32.1
72.5°	7.1	7.1	10.3	13.2	14.1
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	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)