

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: P518852

Luminaire Tested: **SQ4-BB-125U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518852
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

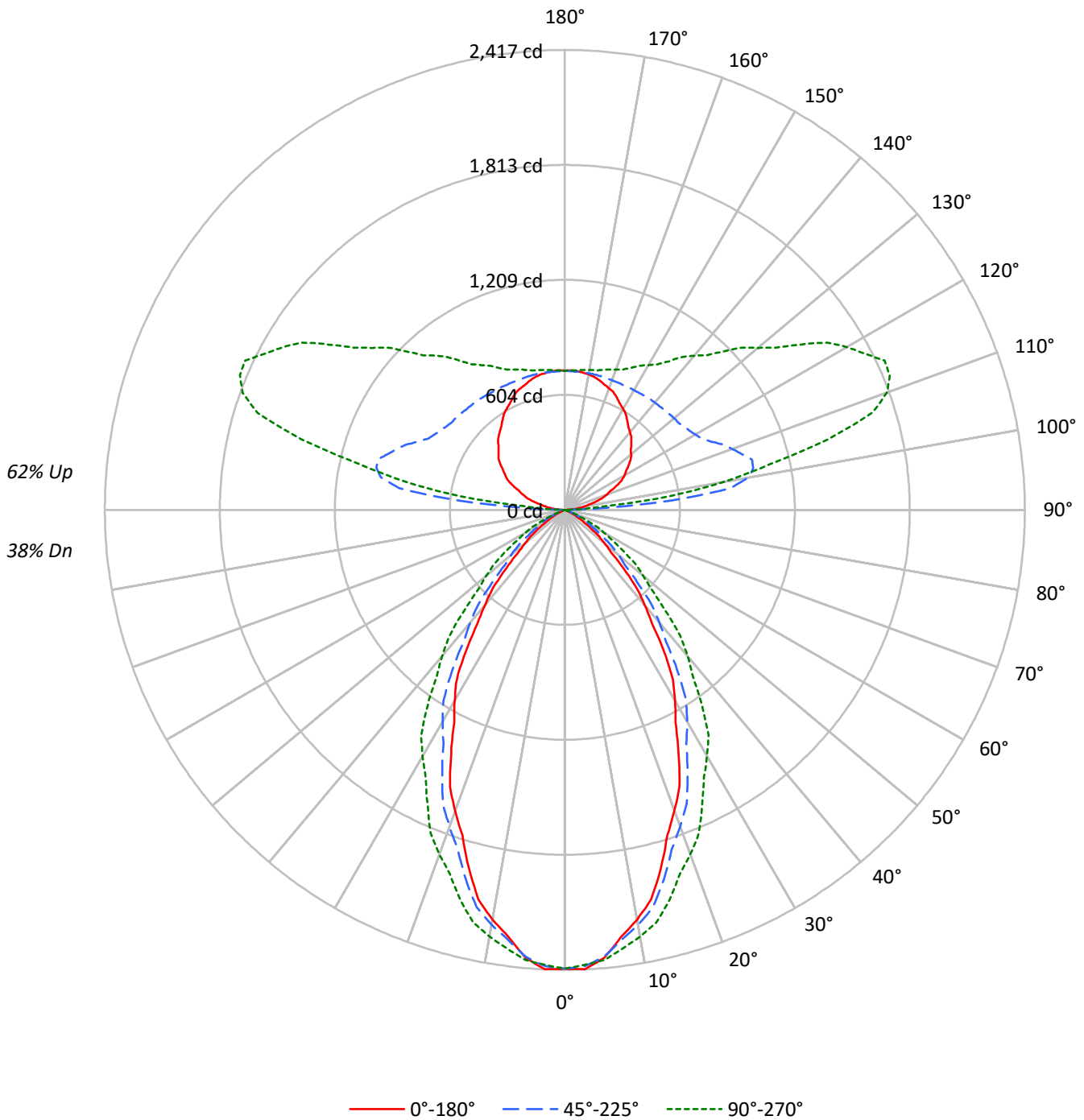
Lumens per Lamp: N/A
Luminaire Lumens: 7597.2 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 75.3
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	93	89	86	88	84	82	79	69	67	66	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	37	36	31
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28
4	76	66	59	54	69	61	55	50	51	47	43	41	38	36	33	31	29	26
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23
6	65	54	47	42	59	50	44	39	42	37	34	35	32	29	28	26	24	21
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	19
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18
9	53	41	35	30	48	39	32	28	33	28	25	28	24	22	23	20	19	17
10	49	38	32	27	45	36	30	26	31	26	23	26	22	20	21	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22248	22248	22248
5°	21890	21837	21999
10°	20482	20755	21335
15°	18620	19211	20281
20°	16528	17387	18911
25°	14395	15535	17375
30°	12329	13684	15922
35°	10222	11616	14164
40°	7854	9287	12069
45°	5678	7033	9711
50°	3868	5242	7703
55°	2514	3791	5987
60°	1443	2670	4327
65°	382	1631	2190
70°	189	504	629
75°	82	43	0
80°	64	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	2.9
10°-20°	562.8	7.4
20°-30°	704.6	9.3
30°-40°	650.8	8.6
40°-50°	437.3	5.8
50°-60°	225.9	3.0
60°-70°	70.8	0.9
70°-80°	4.5	0.1
80°-90°	1.8	0.0
90°-100°	342.0	4.5
100°-110°	921.1	12.1
110°-120°	966.7	12.7
120°-130°	784.4	10.3
130°-140°	615.2	8.1
140°-150°	472.3	6.2
150°-160°	339.6	4.5
160°-170°	207.5	2.7
170°-180°	70.0	0.9
0°-30°	1487.4	19.6
0°-40°	2138.2	28.1
0°-60°	2801.3	36.9
0°-90°	2878.4	37.9
90°-120°	2229.8	29.3
90°-150°	4101.8	54.0
90°-180°	4719.0	62.1
0°-180°	7597.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2411	2411	2411	2411	2411	
5°	2364	2340	2358	2366	2375	219
15°	1949	1943	2011	2079	2123	543
25°	1414	1425	1526	1630	1707	648
35°	908	930	1031	1153	1258	562
45°	435	461	539	644	744	342
55°	156	183	236	303	372	146
65°	18	34	75	90	100	30
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	6	11	12	12	4
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2411.4	2411.4	2411.4	2411.4	2411.4
2.5°	2417.0	2394.2	2400.2	2400.1	2393.7
5°	2363.6	2339.6	2357.8	2366.1	2375.3
7.5°	2263.7	2245.0	2279.8	2305.9	2324.9
10°	2186.3	2170.3	2215.4	2251.0	2277.3
12.5°	2096.7	2084.4	2138.9	2187.7	2221.3
15°	1949.4	1942.6	2011.3	2078.8	2123.3
17.5°	1791.7	1791.5	1869.9	1953.7	2007.3
20°	1683.4	1686.9	1770.9	1863.4	1926.1
22.5°	1575.2	1583.2	1672.9	1769.3	1841.2
25°	1414.0	1425.4	1526.0	1630.4	1706.8
27.5°	1259.0	1275.7	1381.5	1490.0	1583.1
30°	1157.3	1176.7	1284.5	1398.6	1494.5
32.5°	1057.4	1080.5	1185.5	1306.3	1403.9
35°	907.6	930.5	1031.3	1152.7	1257.6
37.5°	752.9	775.3	873.8	993.3	1106.7
40°	652.1	677.2	771.1	886.9	1002.1
42.5°	560.7	585.8	674.1	787.8	896.7
45°	435.2	461.4	539.0	643.9	744.3
47.5°	331.1	359.6	427.7	522.6	614.1
50°	269.5	298.0	365.2	448.8	536.7
52.5°	220.0	247.6	308.2	387.1	467.6
55°	156.3	182.6	235.7	302.6	372.2
57.5°	108.0	130.6	178.3	234.1	288.6
60°	78.2	99.8	144.7	190.0	234.5
62.5°	52.0	71.9	115.7	150.5	180.4
65°	17.5	33.5	74.7	90.1	100.3
67.5°	8.9	10.7	39.2	41.4	44.8
70°	7.0	7.0	18.7	19.9	23.3
72.5°	5.1	5.1	7.5	9.6	10.3
75°	2.3	2.3	1.2	0.0	0.0
77.5°	1.2	1.2	0.9	0.0	0.0
80°	1.2	1.2	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	1.1	2.2	2.4	2.4
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)