

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: P518816

Luminaire Tested: **SQ4-BB-125U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518816
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-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

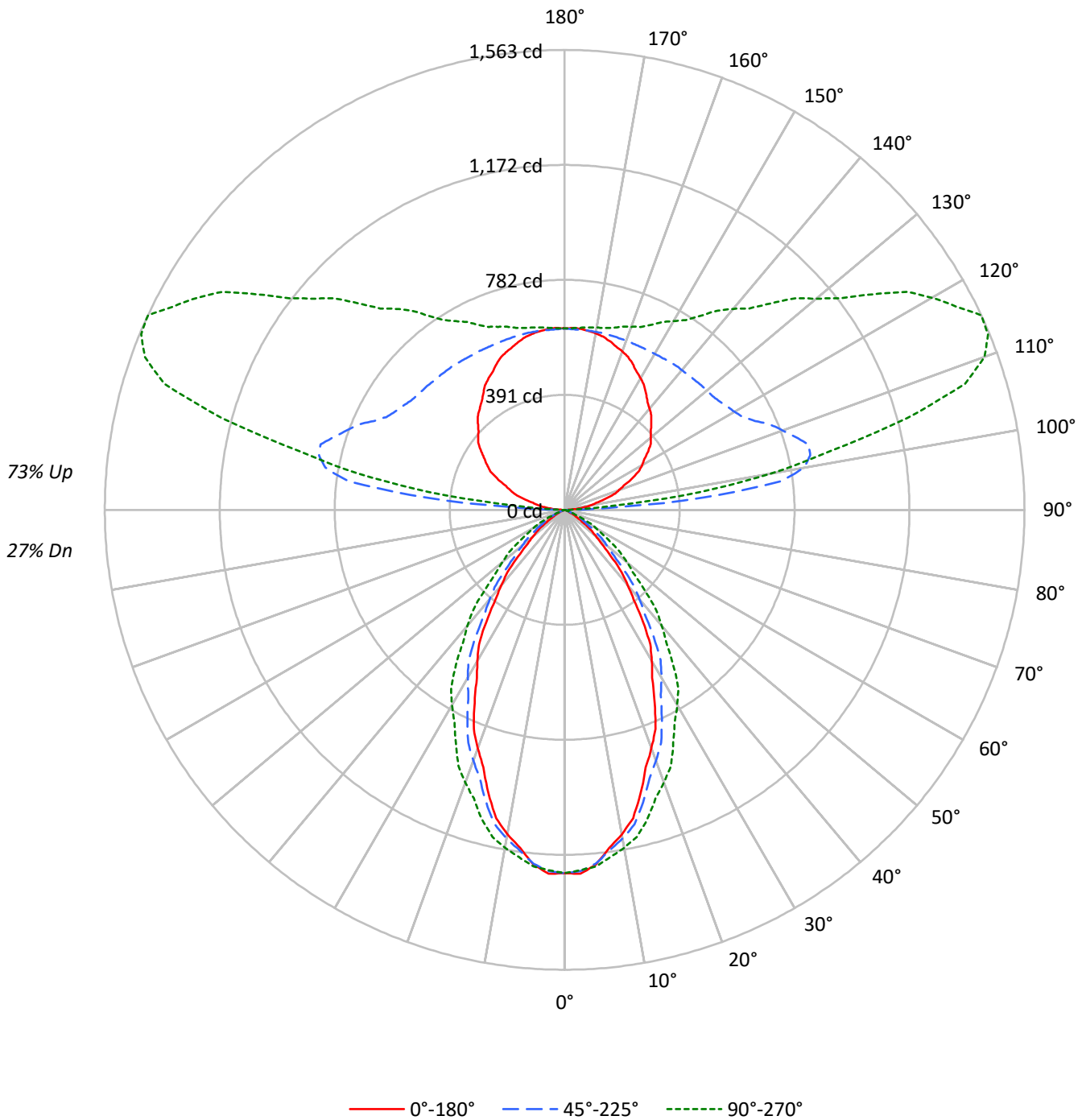
Lumens per Lamp: N/A
Luminaire Lumens: 5452.8 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	94	90	86	83	84	81	78	75	63	61	60	47	46	45	32	32	31	25				
2	86	80	74	70	77	71	67	63	56	53	51	43	41	39	30	29	28	22				
3	79	71	64	59	71	64	58	54	51	47	44	39	36	34	27	26	25	20				
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22	18				
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20	17				
6	62	51	44	39	56	46	40	36	37	33	30	29	26	24	21	20	18	15				
7	58	46	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14				
8	53	42	35	30	48	39	32	28	31	27	24	25	22	20	18	17	15	13				
9	50	39	32	27	45	35	29	25	29	25	22	23	20	18	17	15	14	12				
10	47	36	29	25	42	33	27	23	27	22	20	21	18	16	16	14	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11393	11393	11393
5°	11210	11182	11265
10°	10489	10629	10926
15°	9535	9837	10386
20°	8464	8904	9684
25°	7371	7955	8897
30°	6313	7008	8153
35°	5235	5948	7253
40°	4023	4756	6181
45°	2907	3601	4974
50°	1981	2684	3944
55°	1288	1942	3066
60°	738	1367	2216
65°	196	834	1122
70°	97	259	321
75°	43	21	0
80°	32	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	2.1
10°-20°	288.2	5.3
20°-30°	360.8	6.6
30°-40°	333.3	6.1
40°-50°	223.9	4.1
50°-60°	115.7	2.1
60°-70°	36.2	0.7
70°-80°	2.3	0.0
80°-90°	1.5	0.0
90°-100°	288.3	5.3
100°-110°	776.6	14.2
110°-120°	815.0	14.9
120°-130°	661.3	12.1
130°-140°	518.7	9.5
140°-150°	398.2	7.3
150°-160°	286.3	5.3
160°-170°	174.9	3.2
170°-180°	59.0	1.1
0°-30°	761.7	14.0
0°-40°	1094.9	20.1
0°-60°	1434.5	26.3
0°-90°	1474.5	27.0
90°-120°	1879.8	34.5
90°-150°	3458.0	63.4
90°-180°	3978.0	73.0
0°-180°	5452.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1210	1198	1207	1212	1216	112
15°	998	995	1030	1064	1087	278
25°	724	730	781	835	874	332
35°	465	476	528	590	644	288
45°	223	236	276	330	381	175
55°	80	94	121	155	191	75
65°	9	17	38	46	51	15
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	2	5	9	10	10	3
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	



TEST NUMBER: P518816

CATALOG NUMBER: SQ4-BB-125U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1237.7	1226.0	1229.1	1229.0	1225.8
5°	1210.4	1198.1	1207.4	1211.7	1216.3
7.5°	1159.2	1149.6	1167.5	1180.8	1190.5
10°	1119.6	1111.4	1134.5	1152.7	1166.2
12.5°	1073.7	1067.4	1095.3	1120.3	1137.5
15°	998.3	994.8	1029.9	1064.5	1087.3
17.5°	917.5	917.4	957.5	1000.5	1027.9
20°	862.1	863.8	906.9	954.2	986.3
22.5°	806.6	810.7	856.7	906.0	942.8
25°	724.1	729.9	781.4	834.9	874.0
27.5°	644.7	653.3	707.5	763.0	810.7
30°	592.6	602.6	657.8	716.2	765.3
32.5°	541.5	553.3	607.1	668.9	718.9
35°	464.8	476.5	528.1	590.3	644.0
37.5°	385.6	397.0	447.5	508.6	566.7
40°	334.0	346.8	394.9	454.2	513.2
42.5°	287.1	300.0	345.2	403.4	459.2
45°	222.8	236.3	276.0	329.7	381.2
47.5°	169.5	184.1	219.0	267.6	314.5
50°	138.0	152.6	187.0	229.8	274.8
52.5°	112.7	126.8	157.8	198.2	239.4
55°	80.1	93.5	120.7	154.9	190.6
57.5°	55.3	66.9	91.3	119.9	147.8
60°	40.0	51.1	74.1	97.3	120.1
62.5°	26.6	36.8	59.3	77.1	92.4
65°	9.0	17.1	38.2	46.1	51.4
67.5°	4.5	5.5	20.1	21.2	22.9
70°	3.6	3.6	9.6	10.2	11.9
72.5°	2.6	2.6	3.8	4.9	5.3
75°	1.2	1.2	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.9	1.9	2.0	2.0
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2



TEST NUMBER: P518816

CATALOG NUMBER: SQ4-BB-125U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)