

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521287

Luminaire Tested: **SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521287
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

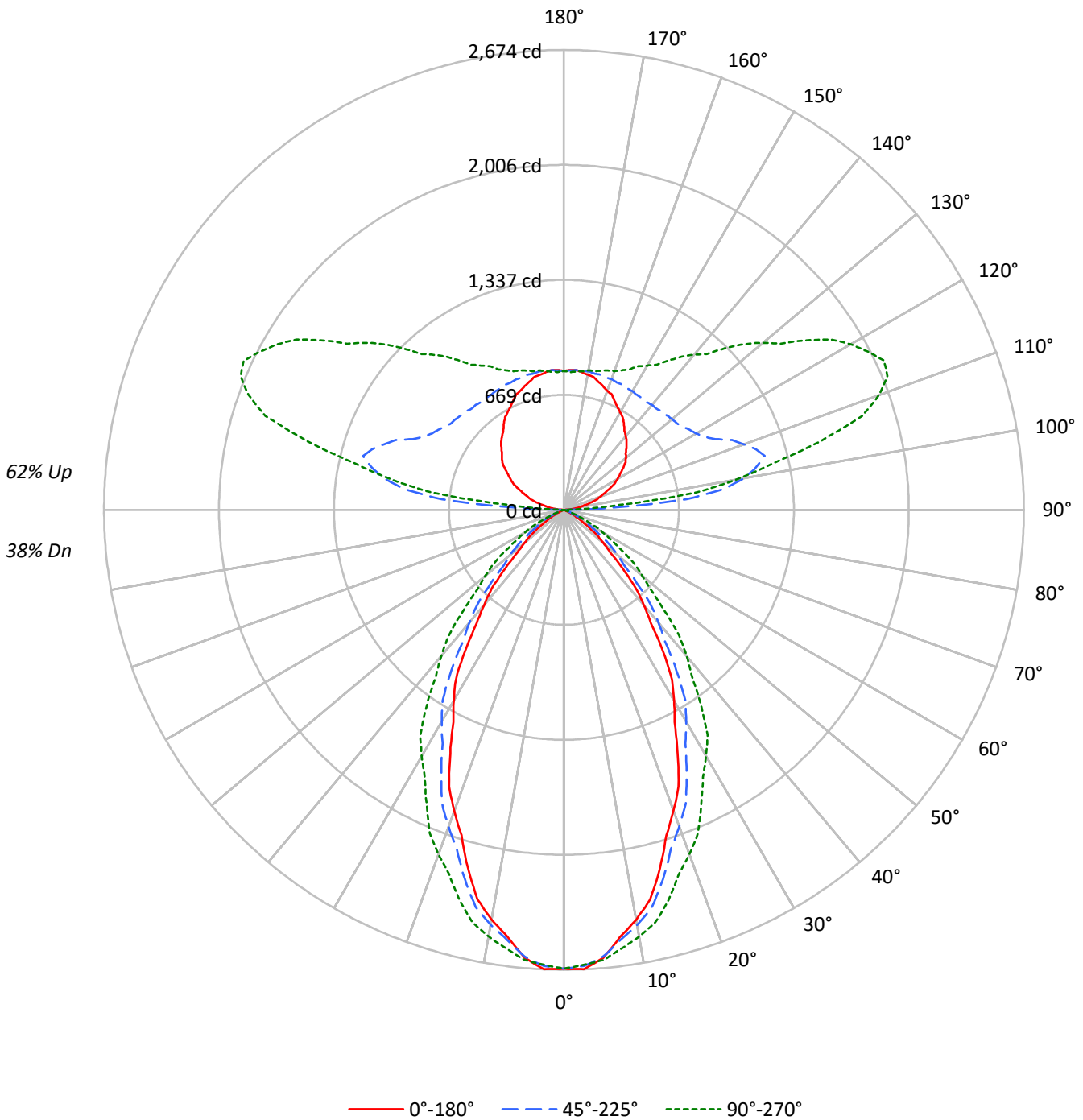
Lumens per Lamp: N/A
Luminaire Lumens: 8409.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.7
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	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	65	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	38	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	30	26	23	26	22	20	21	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24614	24614	24614
5°	24217	24158	24336
10°	22660	22961	23602
15°	20600	21253	22437
20°	18286	19236	20922
25°	15925	17186	19222
30°	13640	15139	17613
35°	11309	12850	15670
40°	8690	10275	13353
45°	6281	7780	10744
50°	4279	5799	8522
55°	2781	4193	6622
60°	1596	2952	4787
65°	424	1803	2423
70°	208	558	696
75°	93	46	0
80°	69	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	2.9
10°-20°	622.6	7.4
20°-30°	779.4	9.3
30°-40°	719.9	8.6
40°-50°	483.8	5.8
50°-60°	249.9	3.0
60°-70°	78.3	0.9
70°-80°	5.0	0.1
80°-90°	0.1	0.0
90°-100°	416.1	4.9
100°-110°	1005.7	12.0
110°-120°	1072.6	12.8
120°-130°	868.8	10.3
130°-140°	672.6	8.0
140°-150°	513.1	6.1
150°-160°	371.4	4.4
160°-170°	228.8	2.7
170°-180°	77.5	0.9
0°-30°	1645.5	19.6
0°-40°	2365.5	28.1
0°-60°	3099.1	36.9
0°-90°	3182.4	37.8
90°-120°	2494.5	29.7
90°-150°	4548.9	54.1
90°-180°	5227.0	62.2
0°-180°	8409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2615	2588	2608	2618	2628	242
15°	2157	2149	2225	2300	2349	601
25°	1564	1577	1688	1804	1888	717
35°	1004	1029	1141	1275	1391	622
45°	481	510	596	712	823	378
55°	173	202	261	335	412	161
65°	19	37	83	100	111	33
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	41	208	713	464	325	46
105°	161	278	1209	1564	1544	170
115°	294	376	971	1841	2053	291
125°	419	482	843	1464	1720	374
135°	515	575	809	1155	1328	397
145°	609	654	793	981	1058	380
155°	698	728	804	869	901	322
165°	771	783	814	826	838	218
175°	816	812	816	809	807	77
180°	807	807	807	807	807	

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CATALOG NUMBER: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2667.8	2667.8	2667.8	2667.8	2667.8
2.5°	2674.0	2648.7	2655.4	2655.2	2648.1
5°	2614.8	2588.3	2608.4	2617.7	2627.7
7.5°	2504.4	2483.7	2522.2	2551.0	2572.0
10°	2418.7	2401.0	2450.9	2490.3	2519.3
12.5°	2319.5	2305.9	2366.3	2420.3	2457.4
15°	2156.7	2149.1	2225.1	2299.8	2349.0
17.5°	1982.2	1981.9	2068.6	2161.4	2220.7
20°	1862.4	1866.2	1959.2	2061.4	2130.9
22.5°	1742.6	1751.5	1850.8	1957.4	2036.9
25°	1564.3	1576.9	1688.2	1803.7	1888.2
27.5°	1392.9	1411.3	1528.4	1648.4	1751.4
30°	1280.3	1301.8	1421.0	1547.3	1653.3
32.5°	1169.8	1195.3	1311.6	1445.1	1553.2
35°	1004.1	1029.4	1140.9	1275.2	1391.3
37.5°	833.0	857.7	966.7	1098.9	1224.3
40°	721.5	749.2	853.1	981.2	1108.7
42.5°	620.3	648.0	745.7	871.6	992.0
45°	481.4	510.4	596.3	712.4	823.4
47.5°	366.3	397.8	473.1	578.2	679.4
50°	298.1	329.7	404.0	496.5	593.7
52.5°	243.4	274.0	341.0	428.2	517.3
55°	172.9	202.0	260.7	334.7	411.7
57.5°	119.5	144.5	197.2	259.0	319.3
60°	86.5	110.5	160.0	210.2	259.4
62.5°	57.6	79.5	128.0	166.5	199.5
65°	19.4	37.0	82.6	99.6	111.0
67.5°	9.8	11.8	43.4	45.8	49.6
70°	7.7	7.7	20.7	22.0	25.8
72.5°	5.7	5.7	8.3	10.6	11.4
75°	2.6	2.6	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	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°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	112.6	265.3	129.0	87.5
95°	41.0	208.2	712.9	463.6	324.8
97.5°	72.8	230.6	939.0	904.6	776.5
100°	97.5	244.6	1063.4	1122.6	1017.3
102.5°	120.7	257.1	1145.5	1304.1	1241.6
105°	160.7	277.7	1208.8	1563.9	1543.9
107.5°	200.0	302.0	1171.5	1772.3	1819.5
110°	227.4	322.7	1111.3	1862.2	1950.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	254.7	343.3	1058.0	1884.1	2035.6
115°	294.1	376.0	971.1	1841.0	2053.3
117.5°	333.0	410.3	920.2	1742.0	1990.8
120°	359.0	430.9	887.3	1664.3	1925.1
122.5°	386.4	452.9	866.8	1584.9	1841.7
125°	418.9	482.4	842.9	1464.2	1720.0
127.5°	451.0	510.9	826.1	1361.9	1586.6
130°	470.2	528.7	820.7	1290.7	1511.4
132.5°	487.9	549.1	812.4	1239.3	1426.6
135°	514.6	574.8	808.7	1154.6	1328.4
137.5°	539.9	600.4	796.7	1097.2	1228.2
140°	559.1	614.2	796.7	1055.9	1176.3
142.5°	578.2	633.4	789.9	1019.9	1121.6
145°	608.7	653.8	793.3	981.4	1058.3
147.5°	637.0	680.8	791.2	937.0	1000.5
150°	654.8	693.3	796.7	917.5	967.7
152.5°	674.0	711.1	795.4	896.9	941.7
155°	697.6	727.6	803.6	869.2	901.0
157.5°	725.9	751.7	801.8	858.7	877.4
160°	736.9	758.6	808.7	844.9	858.3
162.5°	754.7	773.7	806.0	840.7	848.7
165°	771.1	782.8	813.8	826.0	837.8
167.5°	791.2	798.9	811.8	825.1	825.4
170°	796.7	801.7	817.2	815.7	824.1
172.5°	806.3	810.0	813.1	816.8	811.8
175°	815.5	812.2	815.5	808.6	807.0
177.5°	813.8	813.8	811.1	808.2	801.5
180°	807.0	807.0	807.0	807.0	807.0

(END OF REPORT)