

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: P518383

Luminaire Tested: **SQ4-BB-025U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518383
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

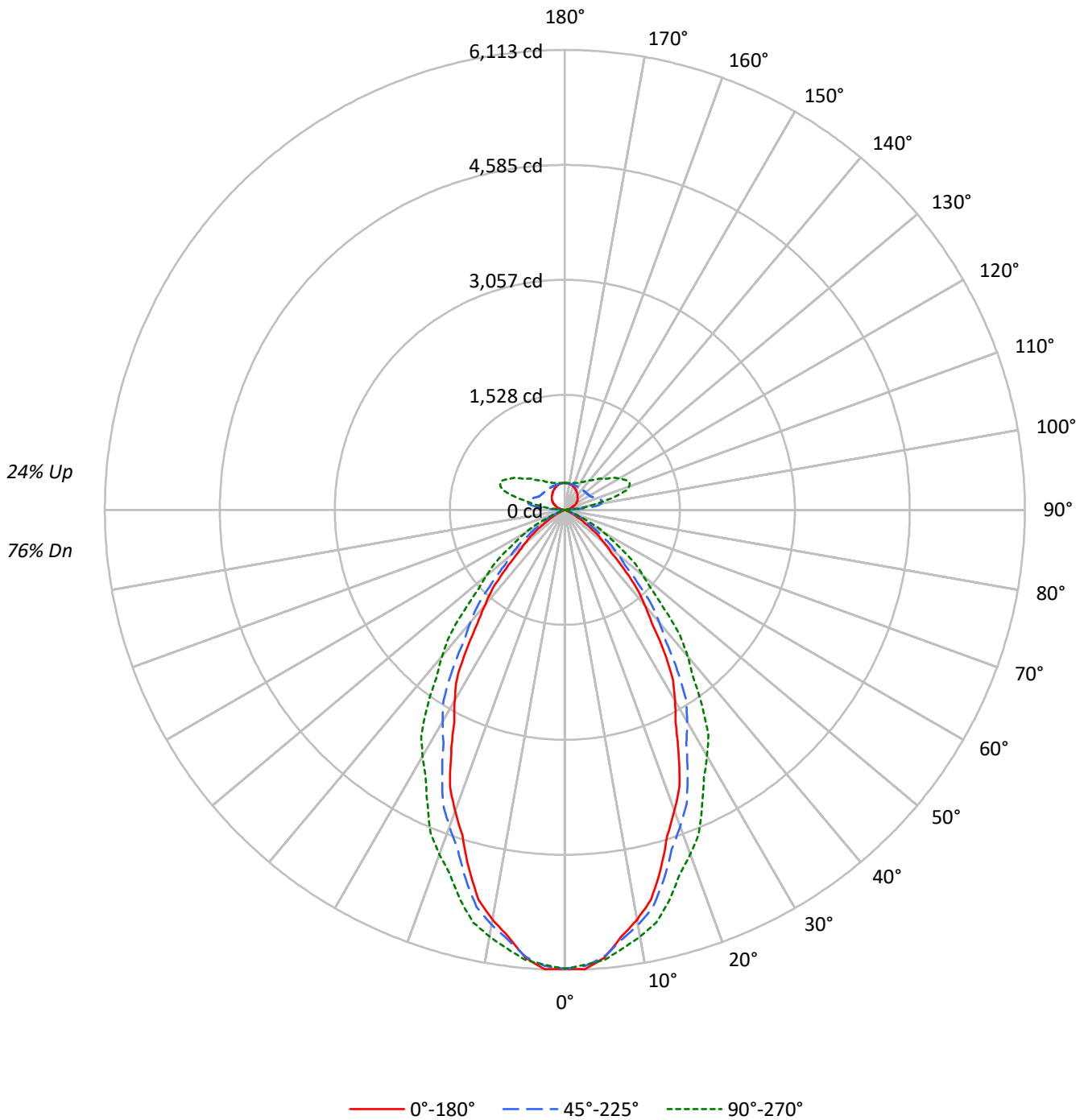
Lumens per Lamp: N/A
Luminaire Lumens: 9583.3 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	69
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	63
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	57
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	51
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	46
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	42
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	39
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	36
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	33
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18757	18757	18757
5°	18455	18409	18546
10°	17267	17498	17986
15°	15698	16196	17098
20°	13934	14659	15943
25°	12135	13096	14648
30°	10394	11536	13422
35°	8619	9793	11942
40°	6622	7830	10176
45°	4787	5929	8188
50°	3261	4418	6494
55°	2120	3196	5047
60°	1216	2251	3648
65°	322	1374	1847
70°	159	424	531
75°	70	36	0
80°	53	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.6	5.8
10°-20°	1423.4	14.9
20°-30°	1781.9	18.6
30°-40°	1645.9	17.2
40°-50°	1106.0	11.5
50°-60°	571.3	6.0
60°-70°	178.9	1.9
70°-80°	11.3	0.1
80°-90°	2.1	0.0
90°-100°	173.4	1.8
100°-110°	455.8	4.8
110°-120°	472.7	4.9
120°-130°	379.1	4.0
130°-140°	297.5	3.1
140°-150°	228.3	2.4
150°-160°	164.5	1.7
160°-170°	100.6	1.0
170°-180°	34.0	0.4
0°-30°	3761.9	39.3
0°-40°	5407.8	56.4
0°-60°	7085.0	73.9
0°-90°	7277.4	75.9
90°-120°	1101.9	11.5
90°-150°	2006.9	20.9
90°-180°	2306.0	24.1
0°-180°	9583.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6099	6099	6099	6099	6099	
5°	5978	5917	5963	5984	6007	554
15°	4930	4913	5087	5258	5370	1373
25°	3576	3605	3859	4123	4317	1640
35°	2296	2353	2608	2915	3181	1422
45°	1101	1167	1363	1629	1882	864
55°	395	462	596	765	941	369
65°	44	85	189	228	254	75
75°	6	6	3	0	0	8
85°	0	0	0	0	0	1
90°	2	7	18	9	9	2
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6098.9	6098.9	6098.9	6098.9	6098.9
2.5°	6113.1	6055.4	6070.6	6070.2	6054.1
5°	5977.9	5917.4	5963.2	5984.4	6007.4
7.5°	5725.4	5678.0	5766.1	5832.1	5880.0
10°	5529.4	5489.1	5603.2	5693.2	5759.6
12.5°	5302.8	5271.7	5409.6	5533.1	5618.0
15°	4930.5	4913.2	5086.9	5257.6	5370.1
17.5°	4531.5	4531.0	4729.2	4941.2	5076.8
20°	4257.7	4266.4	4479.0	4712.8	4871.5
22.5°	3983.9	4004.1	4231.2	4474.9	4656.7
25°	3576.1	3605.0	3859.4	4123.4	4316.7
27.5°	3184.3	3226.4	3494.1	3768.6	4004.0
30°	2927.0	2976.1	3248.6	3537.4	3779.7
32.5°	2674.4	2732.7	2998.4	3303.8	3550.8
35°	2295.6	2353.3	2608.3	2915.3	3180.8
37.5°	1904.3	1960.9	2210.0	2512.2	2798.9
40°	1649.4	1712.9	1950.4	2243.2	2534.6
42.5°	1418.1	1481.5	1704.9	1992.6	2267.8
45°	1100.6	1166.9	1363.2	1628.6	1882.5
47.5°	837.4	909.5	1081.7	1321.8	1553.2
50°	681.6	753.7	923.5	1135.1	1357.3
52.5°	556.5	626.3	779.6	978.9	1182.6
55°	395.4	461.7	596.0	765.3	941.2
57.5°	273.2	330.4	450.9	592.1	730.0
60°	197.7	252.5	365.9	480.6	593.1
62.5°	131.6	181.8	292.7	380.6	456.2
65°	44.3	84.6	188.8	227.8	253.8
67.5°	22.4	27.0	99.1	104.6	113.3
70°	17.7	17.7	47.2	50.4	59.0
72.5°	13.0	13.0	18.9	24.2	26.0
75°	5.9	5.9	3.0	0.0	0.0
77.5°	3.0	3.0	2.4	0.0	0.0
80°	3.0	3.0	0.0	0.0	0.0
82.5°	0.6	0.6	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.3	3.6	1.8	1.8
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)