

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: P518959

Luminaire Tested: **SQ4-BB-150U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518959
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

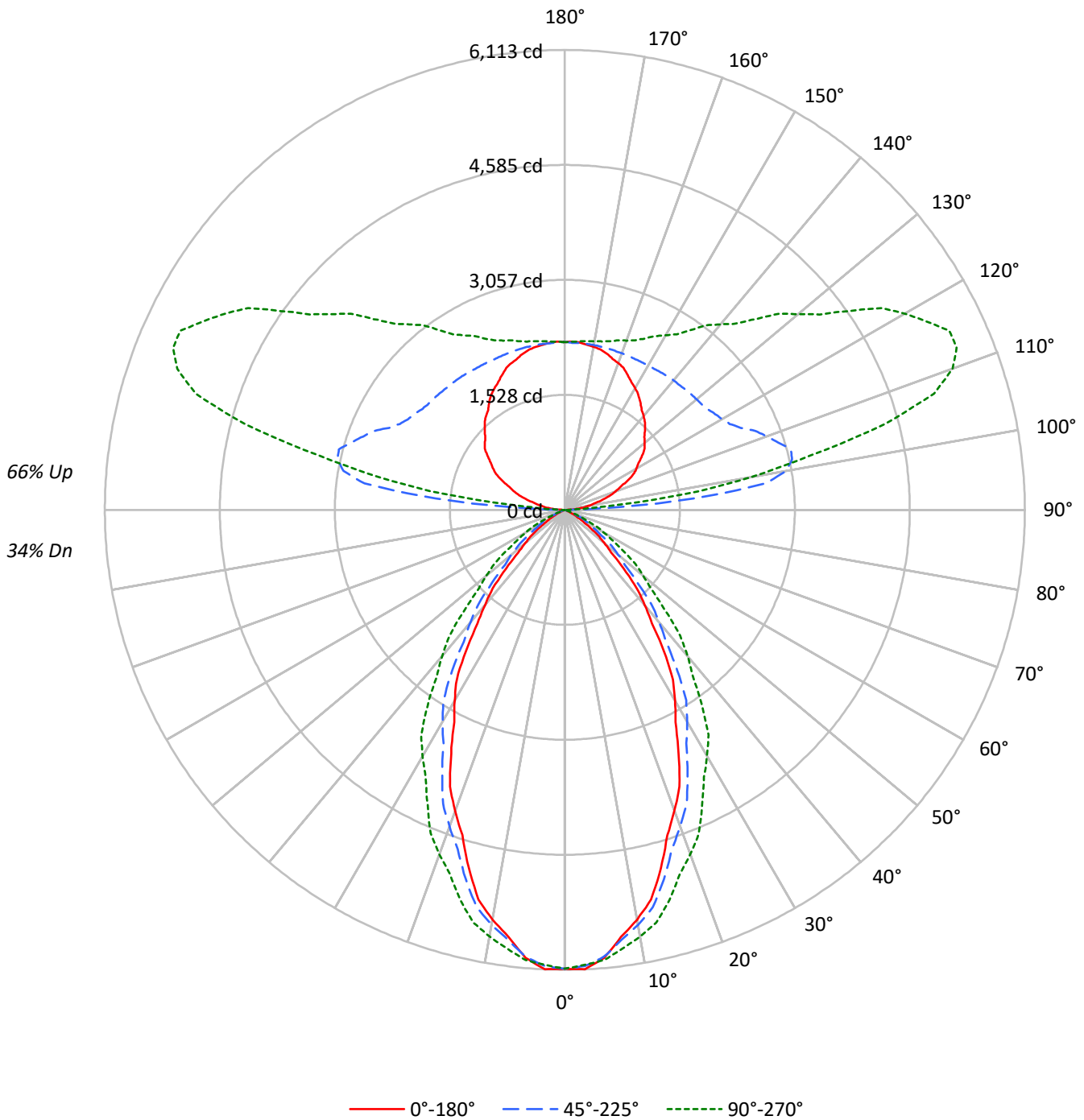
Lumens per Lamp: N/A
Luminaire Lumens: 21660.9 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 256.3
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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	95	92	88	85	86	83	80	78	67	65	63	52	51	50	38	37	37	31				
2	88	81	76	72	79	74	69	66	60	57	54	47	45	43	35	34	33	28				
3	81	73	66	61	73	66	61	56	54	50	47	43	40	38	32	31	30	25				
4	75	65	58	53	67	59	53	49	49	45	41	39	36	34	30	28	27	23				
5	69	59	51	46	62	54	47	43	44	40	36	35	32	30	27	26	24	21				
6	64	53	46	40	58	49	42	38	40	36	32	33	29	27	25	23	22	19				
7	59	48	41	36	54	44	38	34	37	32	29	30	27	24	23	21	20	17				
8	55	44	37	32	50	41	34	30	34	29	26	28	25	22	22	20	18	16				
9	52	40	34	29	47	37	31	27	31	27	24	26	23	20	20	18	17	15				
10	48	37	31	26	44	34	29	25	29	25	22	24	21	19	19	17	16	14				

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	2.6
10°-20°	1423.4	6.6
20°-30°	1781.9	8.2
30°-40°	1645.9	7.6
40°-50°	1106.0	5.1
50°-60°	571.3	2.6
60°-70°	178.9	0.8
70°-80°	11.3	0.1
80°-90°	4.9	0.0
90°-100°	1036.6	4.8
100°-110°	2802.7	12.9
110°-120°	2946.7	13.6
120°-130°	2393.5	11.0
130°-140°	1877.5	8.7
140°-150°	1441.0	6.7
150°-160°	1036.3	4.8
160°-170°	633.1	2.9
170°-180°	213.4	1.0
0°-30°	3761.9	17.4
0°-40°	5407.8	25.0
0°-60°	7085.0	32.7
0°-90°	7280.1	33.6
90°-120°	6786.0	31.3
90°-150°	12497.9	57.7
90°-180°	14381.0	66.4
0°-180°	21660.9	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°	5	14	31	34	31	11
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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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°	1.0	2.8	6.2	6.7	6.2
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)