

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: P518579

Luminaire Tested: **SQ4-BB-075U-125D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518579
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

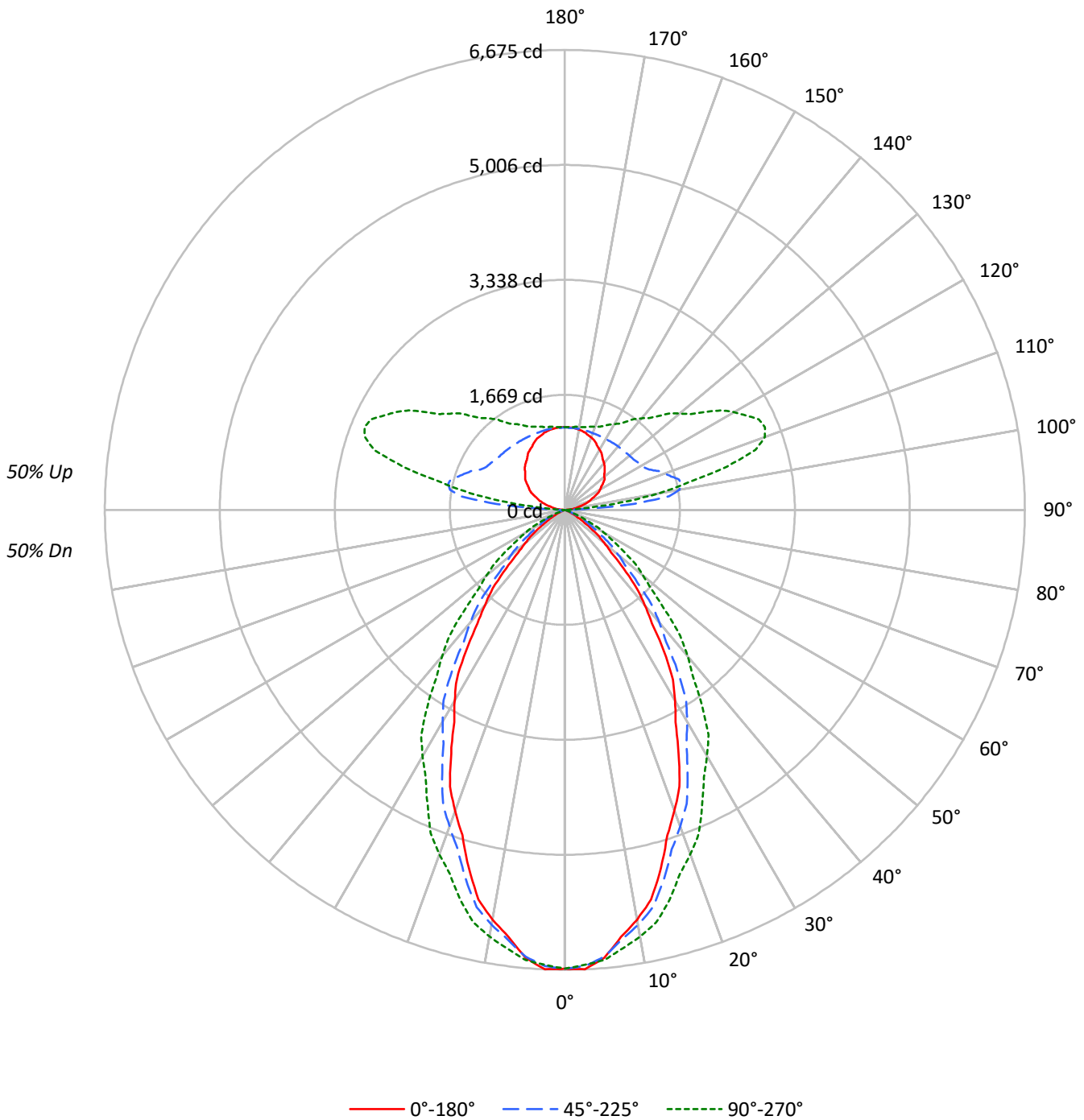
Lumens per Lamp: N/A
Luminaire Lumens: 15751.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 194.8
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	100	96	93	90	92	89	86	84	76	74	72	64	63	61	53	52	51	46
2	92	86	81	77	85	80	76	72	69	66	63	58	56	54	49	47	46	42
3	85	77	71	66	79	72	67	62	62	58	55	53	51	48	45	43	41	38
4	79	70	63	58	73	65	59	55	57	52	49	49	46	43	41	39	37	34
5	73	63	56	51	68	59	53	48	52	47	43	45	41	39	38	36	34	31
6	68	58	50	45	63	54	48	43	47	43	39	41	38	35	36	33	31	28
7	64	53	46	41	59	50	43	39	44	39	35	38	34	32	33	30	28	26
8	60	48	41	37	55	46	39	35	40	35	32	35	32	29	31	28	26	24
9	56	45	38	33	52	42	36	32	37	33	29	33	29	27	29	26	24	22
10	52	41	35	30	49	39	33	29	35	30	27	31	27	25	27	24	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20481	20481	20481
5°	20151	20101	20250
10°	18855	19106	19640
15°	17141	17685	18669
20°	15215	16006	17409
25°	13250	14300	15994
30°	11350	12597	14656
35°	9411	10693	13039
40°	7230	8550	11111
45°	5227	6474	8940
50°	3561	4825	7091
55°	2315	3489	5511
60°	1328	2457	3983
65°	351	1501	2016
70°	174	463	579
75°	76	38	0
80°	57	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.8	3.9
10°-20°	1554.2	9.9
20°-30°	1945.7	12.4
30°-40°	1797.2	11.4
40°-50°	1207.6	7.7
50°-60°	623.8	4.0
60°-70°	195.4	1.2
70°-80°	12.3	0.1
80°-90°	3.3	0.0
90°-100°	565.0	3.6
100°-110°	1554.4	9.9
110°-120°	1604.4	10.2
120°-130°	1285.5	8.2
130°-140°	1009.6	6.4
140°-150°	773.7	4.9
150°-160°	556.3	3.5
160°-170°	340.2	2.2
170°-180°	114.7	0.7
0°-30°	4107.7	26.1
0°-40°	5904.9	37.5
0°-60°	7736.2	49.1
0°-90°	7947.2	50.5
90°-120°	3723.8	23.6
90°-150°	6792.7	43.1
90°-180°	7804.0	49.5
0°-180°	15751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6660	6660	6660	6660	6660	
5°	6527	6461	6511	6534	6560	605
15°	5384	5365	5554	5741	5864	1499
25°	3905	3936	4214	4502	4714	1790
35°	2507	2570	2848	3183	3473	1553
45°	1202	1274	1488	1778	2056	944
55°	432	504	651	836	1028	403
65°	48	92	206	249	277	82
75°	6	6	3	0	0	9
85°	0	0	0	0	0	1
90°	2	10	18	23	23	6
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6659.5	6659.5	6659.5	6659.5	6659.5
2.5°	6674.9	6611.9	6628.5	6628.1	6610.5
5°	6527.4	6461.2	6511.3	6534.4	6559.6
7.5°	6251.6	6199.9	6296.0	6368.1	6420.4
10°	6037.7	5993.6	6118.2	6216.5	6289.0
12.5°	5790.2	5756.2	5906.8	6041.7	6134.3
15°	5383.6	5364.7	5554.4	5740.8	5863.7
17.5°	4948.0	4947.4	5163.9	5395.4	5543.4
20°	4649.1	4658.5	4890.7	5145.9	5319.2
22.5°	4350.1	4372.1	4620.1	4886.2	5084.6
25°	3904.8	3936.3	4214.1	4502.4	4713.5
27.5°	3477.0	3523.0	3815.3	4114.9	4372.0
30°	3196.0	3249.6	3547.2	3862.5	4127.1
32.5°	2920.2	2983.9	3274.0	3607.5	3877.1
35°	2506.6	2569.6	2848.1	3183.3	3473.1
37.5°	2079.4	2141.1	2413.1	2743.1	3056.2
40°	1801.0	1870.3	2129.6	2449.4	2767.5
42.5°	1548.4	1617.7	1861.6	2175.7	2476.3
45°	1201.7	1274.2	1488.5	1778.3	2055.5
47.5°	914.3	993.1	1181.1	1443.3	1696.0
50°	744.2	823.0	1008.4	1239.5	1482.0
52.5°	607.6	683.9	851.2	1068.9	1291.3
55°	431.7	504.2	650.8	835.6	1027.8
57.5°	298.3	360.7	492.3	646.5	797.1
60°	215.9	275.7	399.5	524.7	647.6
62.5°	143.7	198.5	319.6	415.6	498.1
65°	48.3	92.4	206.2	248.7	277.1
67.5°	24.5	29.5	108.3	114.3	123.7
70°	19.3	19.3	51.5	55.0	64.4
72.5°	14.2	14.2	20.6	26.5	28.4
75°	6.4	6.4	3.2	0.0	0.0
77.5°	3.2	3.2	2.6	0.0	0.0
80°	3.2	3.2	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	2.0	3.6	4.6	4.6
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)