

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: P519505

Luminaire Tested: **SQ4-WB-125U-100D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519505
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

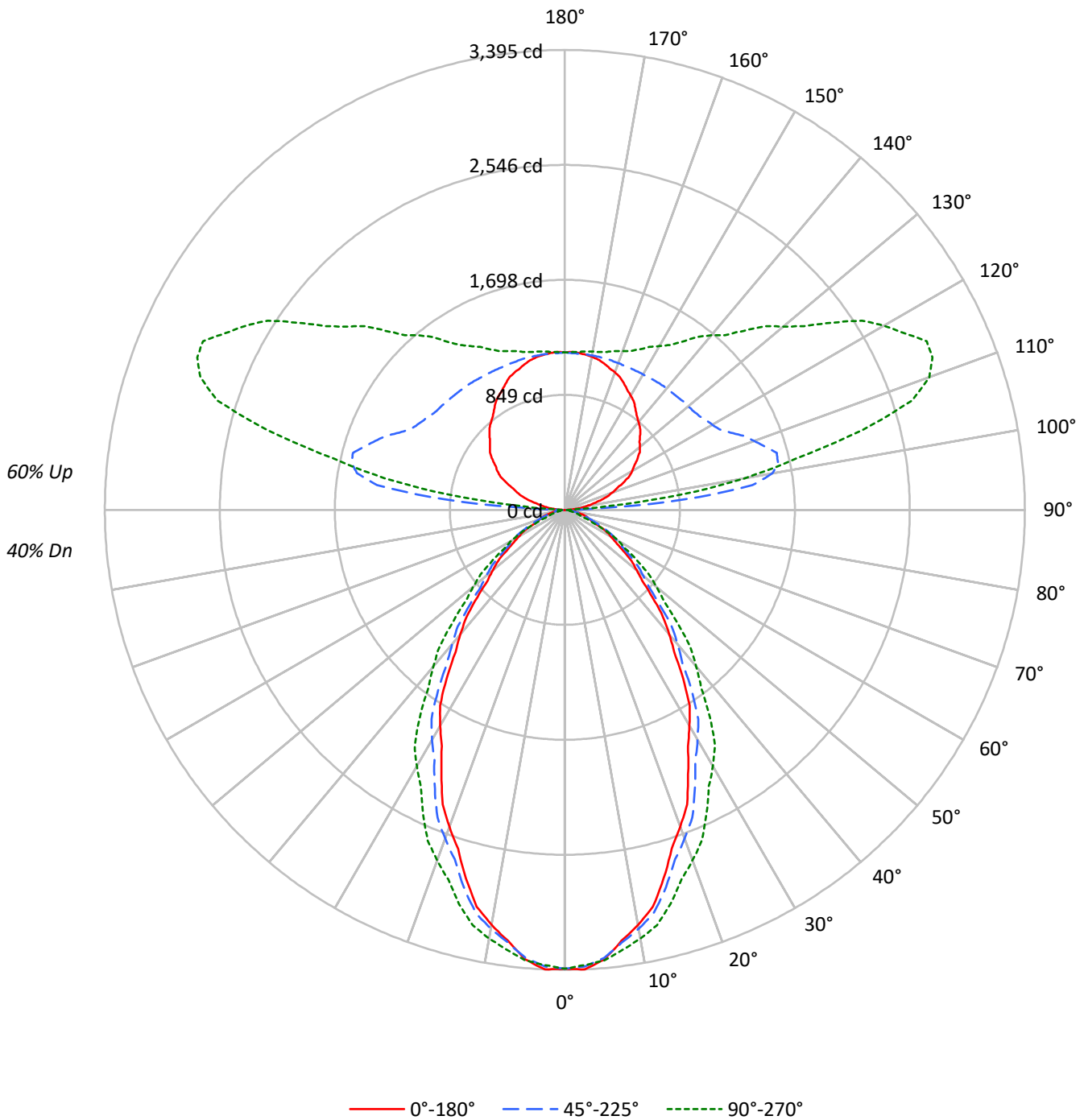
Lumens per Lamp: N/A
Luminaire Lumens: 12437.3 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 102.8
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19614	20069
15°	17944	18360	19183
20°	16294	16907	18026
25°	14615	15412	16794
30°	13068	13923	15516
35°	11428	12254	14005
40°	9618	10382	12124
45°	7937	8623	10122
50°	6627	7225	8433
55°	5626	6199	6965
60°	4809	5375	5558
65°	3829	4520	3590
70°	3394	3528	2192
75°	3144	2861	1343
80°	2894	2632	1158
85°	2625	2414	946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	2.5
10°-20°	808.1	6.5
20°-30°	1046.7	8.4
30°-40°	1025.0	8.2
40°-50°	784.6	6.3
50°-60°	522.8	4.2
60°-70°	285.3	2.3
70°-80°	118.9	1.0
80°-90°	36.4	0.3
90°-100°	543.4	4.4
100°-110°	1463.8	11.8
110°-120°	1536.2	12.4
120°-130°	1246.6	10.0
130°-140°	977.7	7.9
140°-150°	750.6	6.0
150°-160°	539.7	4.3
160°-170°	329.7	2.7
170°-180°	111.2	0.9
0°-30°	2165.4	17.4
0°-40°	3190.4	25.7
0°-60°	4497.8	36.2
0°-90°	4938.3	39.7
90°-120°	3543.5	28.5
90°-150°	6518.4	52.4
90°-180°	7499.0	60.3
0°-180°	12437.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3387	3387	3387	3387	3387	
5°	3332	3299	3320	3328	3340	310
15°	2818	2808	2883	2962	3012	787
25°	2154	2159	2271	2370	2474	990
35°	1522	1529	1632	1742	1865	946
45°	912	930	991	1066	1164	712
55°	525	546	578	600	650	476
65°	263	285	311	271	247	273
75°	132	132	120	83	56	141
85°	37	37	34	22	13	40
90°	3	9	18	19	19	8
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3387.1	3387.1	3387.1	3387.1	3387.1
2.5°	3395.4	3365.2	3372.8	3372.6	3363.3
5°	3332.1	3298.7	3320.2	3327.9	3339.5
7.5°	3208.4	3183.1	3222.4	3251.5	3275.0
10°	3112.1	3090.3	3140.4	3182.7	3213.2
12.5°	3000.4	2982.1	3044.1	3100.8	3140.7
15°	2817.9	2807.7	2883.2	2961.7	3012.5
17.5°	2622.6	2617.6	2704.3	2795.9	2861.0
20°	2489.4	2487.9	2583.0	2678.4	2753.9
22.5°	2355.0	2358.2	2458.2	2557.3	2643.4
25°	2153.5	2159.3	2270.9	2369.9	2474.5
27.5°	1967.1	1969.8	2085.2	2189.6	2301.2
30°	1839.9	1847.2	1960.3	2068.5	2184.7
32.5°	1712.7	1721.1	1831.9	1943.7	2062.3
35°	1521.9	1529.1	1631.9	1741.7	1865.2
37.5°	1325.1	1335.0	1426.2	1530.0	1651.5
40°	1197.9	1212.4	1293.0	1390.8	1510.0
42.5°	1075.4	1093.4	1168.2	1261.0	1368.5
45°	912.5	930.0	991.3	1066.3	1163.7
47.5°	772.2	792.3	839.4	904.0	987.1
50°	692.6	711.5	755.0	802.9	881.3
52.5°	622.4	641.3	680.1	717.0	783.8
55°	524.6	546.4	578.1	600.1	649.5
57.5°	444.4	465.3	490.4	500.3	530.3
60°	390.9	414.1	436.9	435.8	451.8
62.5°	342.1	361.9	384.6	368.9	369.8
65°	263.1	284.9	310.6	271.4	246.7
67.5°	212.5	217.2	243.7	189.3	159.9
70°	188.7	188.7	196.2	146.6	121.9
72.5°	166.2	166.2	159.3	119.2	93.3
75°	132.3	132.3	120.4	82.6	56.5
77.5°	102.0	100.8	92.1	61.7	41.0
80°	81.7	81.7	74.3	48.7	32.7
82.5°	63.9	63.9	57.7	38.0	24.4
85°	37.2	37.2	34.2	22.1	13.4
87.5°	13.7	14.8	15.4	11.0	9.8
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)