

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: P518809

Luminaire Tested: **SQ4-BB-125U-075D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518809
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

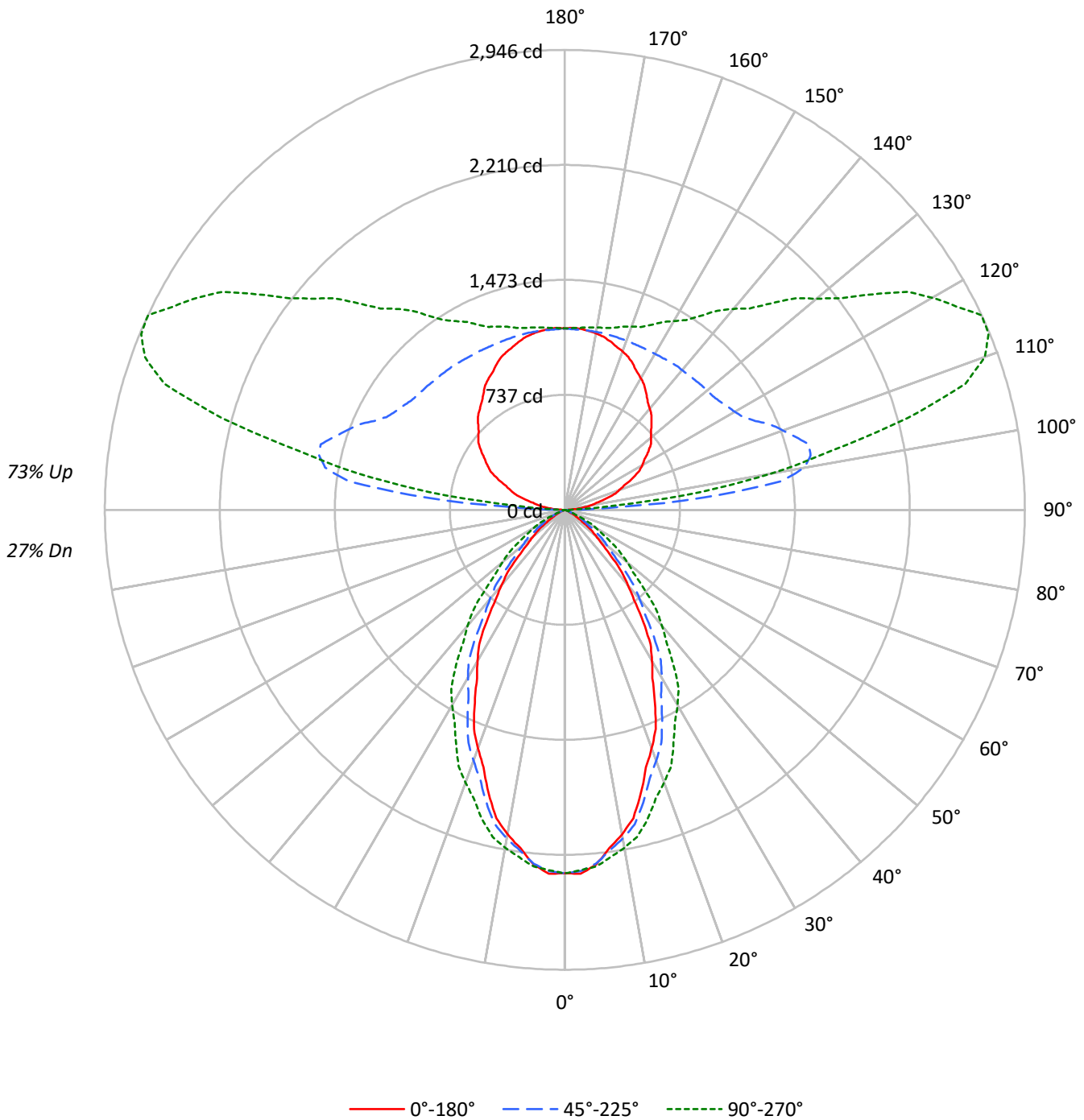
Lumens per Lamp: N/A
Luminaire Lumens: 10278.5 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	94	90	86	83	84	81	78	75	63	61	60	47	46	45	32	32	31	25
2	86	80	74	70	77	71	67	63	56	53	51	43	41	39	30	29	28	22
3	79	71	64	59	71	64	58	54	51	47	44	39	36	34	27	26	25	20
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22	18
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20	17
6	62	51	44	39	56	46	40	36	37	33	30	29	26	24	21	20	18	15
7	58	46	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14
8	53	42	35	30	48	39	32	28	31	27	24	25	22	20	18	17	15	13
9	50	39	32	27	45	35	29	25	29	25	22	23	20	18	17	15	14	12
10	47	36	29	25	42	33	27	23	27	22	20	21	18	16	16	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14317	14317	14317
5°	14087	14052	14156
10°	13181	13356	13729
15°	11983	12362	13051
20°	10637	11190	12169
25°	9263	9997	11181
30°	7934	8806	10246
35°	6578	7475	9116
40°	5054	5977	7767
45°	3653	4526	6250
50°	2489	3373	4957
55°	1618	2440	3852
60°	929	1717	2785
65°	246	1049	1409
70°	122	324	405
75°	55	26	0
80°	39	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	2.1
10°-20°	543.3	5.3
20°-30°	680.1	6.6
30°-40°	628.2	6.1
40°-50°	422.1	4.1
50°-60°	218.0	2.1
60°-70°	68.3	0.7
70°-80°	4.3	0.0
80°-90°	2.8	0.0
90°-100°	543.4	5.3
100°-110°	1463.8	14.2
110°-120°	1536.2	14.9
120°-130°	1246.6	12.1
130°-140°	977.7	9.5
140°-150°	750.6	7.3
150°-160°	539.7	5.3
160°-170°	329.7	3.2
170°-180°	111.2	1.1
0°-30°	1435.8	14.0
0°-40°	2064.0	20.1
0°-60°	2704.1	26.3
0°-90°	2779.5	27.0
90°-120°	3543.5	34.5
90°-150°	6518.4	63.4
90°-180°	7499.0	73.0
0°-180°	10278.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2328	2328	2328	2328	2328	
5°	2282	2258	2276	2284	2293	212
15°	1882	1875	1941	2007	2050	524
25°	1365	1376	1473	1574	1648	626
35°	876	898	996	1113	1214	543
45°	420	445	520	622	718	330
55°	151	176	228	292	359	141
65°	17	32	72	87	97	29
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	3	9	18	19	19	6
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°	2327.7	2327.7	2327.7	2327.7	2327.7
2.5°	2333.1	2311.1	2316.9	2316.8	2310.6
5°	2281.5	2258.4	2275.9	2284.0	2292.8
7.5°	2185.1	2167.1	2200.7	2225.9	2244.1
10°	2110.4	2094.9	2138.5	2172.9	2198.2
12.5°	2023.9	2012.0	2064.6	2111.8	2144.1
15°	1881.8	1875.2	1941.4	2006.6	2049.6
17.5°	1729.5	1729.3	1805.0	1885.9	1937.6
20°	1625.0	1628.3	1709.5	1798.7	1859.2
22.5°	1520.5	1528.2	1614.9	1707.9	1777.3
25°	1364.9	1375.9	1473.0	1573.8	1647.5
27.5°	1215.3	1231.4	1333.6	1438.3	1528.2
30°	1117.1	1135.8	1239.9	1350.1	1442.6
32.5°	1020.7	1043.0	1144.4	1260.9	1355.2
35°	876.1	898.1	995.5	1112.7	1214.0
37.5°	726.8	748.4	843.5	958.8	1068.2
40°	629.5	653.7	744.4	856.1	967.3
42.5°	541.2	565.4	650.7	760.5	865.5
45°	420.0	445.4	520.3	621.6	718.5
47.5°	319.6	347.1	412.8	504.5	592.8
50°	260.1	287.7	352.5	433.2	518.0
52.5°	212.4	239.0	297.5	373.6	451.4
55°	150.9	176.2	227.5	292.1	359.2
57.5°	104.3	126.1	172.1	226.0	278.6
60°	75.5	96.4	139.6	183.4	226.4
62.5°	50.2	69.4	111.7	145.3	174.1
65°	16.9	32.3	72.1	86.9	96.8
67.5°	8.6	10.3	37.8	39.9	43.2
70°	6.8	6.8	18.0	19.2	22.5
72.5°	5.0	5.0	7.2	9.2	9.9
75°	2.3	2.3	1.1	0.0	0.0
77.5°	1.1	1.1	0.9	0.0	0.0
80°	1.1	1.1	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	1.7	3.6	3.8	3.8
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)