

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: P518874

Luminaire Tested: **SQ4-BB-125U-125D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518874
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-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

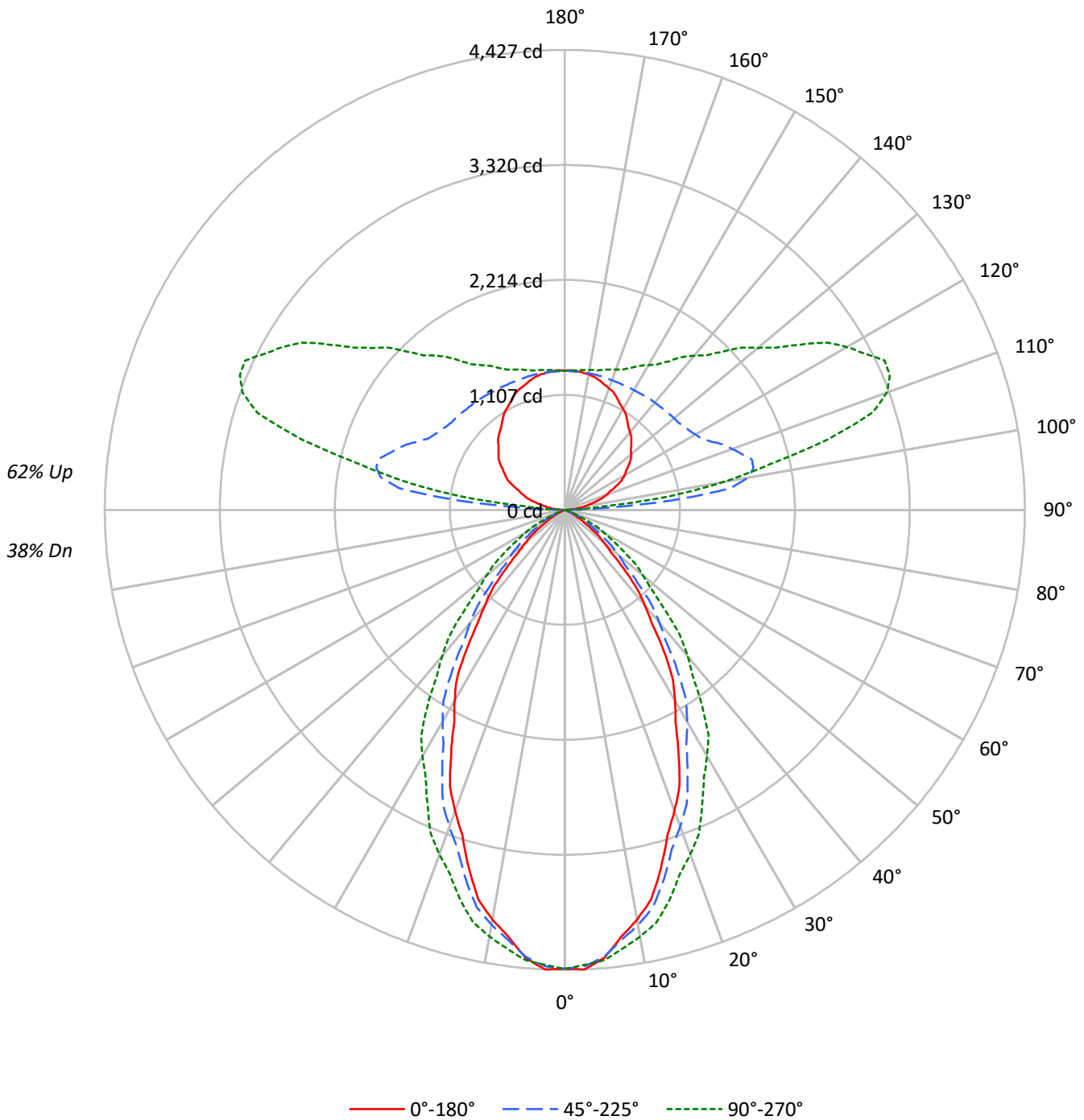
Lumens per Lamp: N/A
Luminaire Lumens: 13916.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 152.7
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	93	89	86	88	84	82	79	69	67	66	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	37	36	31
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28
4	76	66	59	54	69	61	55	50	51	47	43	41	38	36	33	31	29	26
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23
6	65	54	47	42	59	50	44	39	42	37	34	35	32	29	28	26	24	21
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	19
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18
9	53	41	35	30	48	39	32	28	33	28	25	28	24	22	23	20	19	17
10	49	38	32	27	45	36	30	26	31	26	23	26	22	20	21	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20377	20377	20377
5°	20049	19999	20148
10°	18759	19009	19539
15°	17054	17595	18575
20°	15138	15925	17320
25°	13183	14227	15913
30°	11292	12533	14581
35°	9363	10639	12973
40°	7194	8506	11054
45°	5200	6441	8895
50°	3542	4801	7055
55°	2303	3472	5483
60°	1321	2445	3963
65°	350	1493	2006
70°	173	461	576
75°	77	37	0
80°	56	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	2.9
10°-20°	1030.9	7.4
20°-30°	1290.6	9.3
30°-40°	1192.0	8.6
40°-50°	801.0	5.8
50°-60°	413.7	3.0
60°-70°	129.6	0.9
70°-80°	8.2	0.1
80°-90°	3.3	0.0
90°-100°	626.4	4.5
100°-110°	1687.3	12.1
110°-120°	1770.7	12.7
120°-130°	1436.9	10.3
130°-140°	1126.9	8.1
140°-150°	865.2	6.2
150°-160°	622.1	4.5
160°-170°	380.0	2.7
170°-180°	128.2	0.9
0°-30°	2724.5	19.6
0°-40°	3916.6	28.1
0°-60°	5131.3	36.9
0°-90°	5272.4	37.9
90°-120°	4084.4	29.4
90°-150°	7513.4	54.0
90°-180°	8644.0	62.1
0°-180°	13916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4417	4417	4417	4417	4417	
5°	4330	4286	4319	4334	4351	401
15°	3571	3558	3684	3808	3889	995
25°	2590	2611	2795	2986	3126	1187
35°	1663	1704	1889	2111	2304	1030
45°	797	845	987	1180	1363	626
55°	286	334	432	554	682	267
65°	32	61	137	165	184	54
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	3	10	20	22	22	7
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	



TEST NUMBER: P518874

CATALOG NUMBER: SQ4-BB-125U-125D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4417.1	4417.1	4417.1	4417.1	4417.1
2.5°	4427.4	4385.6	4396.6	4396.3	4384.6
5°	4329.5	4285.6	4318.8	4334.1	4350.9
7.5°	4146.6	4112.3	4176.0	4223.9	4258.5
10°	4004.7	3975.4	4058.1	4123.3	4171.3
12.5°	3840.5	3818.0	3917.9	4007.3	4068.8
15°	3570.9	3558.3	3684.1	3807.8	3889.3
17.5°	3281.9	3281.5	3425.1	3578.6	3676.9
20°	3083.6	3089.9	3243.9	3413.2	3528.1
22.5°	2885.3	2900.0	3064.4	3240.9	3372.6
25°	2590.0	2610.9	2795.1	2986.4	3126.4
27.5°	2306.2	2336.7	2530.6	2729.4	2899.9
30°	2119.9	2155.4	2352.8	2561.9	2737.4
32.5°	1936.9	1979.1	2171.6	2392.8	2571.6
35°	1662.6	1704.3	1889.1	2111.4	2303.6
37.5°	1379.2	1420.1	1600.6	1819.4	2027.1
40°	1194.6	1240.5	1412.5	1624.6	1835.6
42.5°	1027.0	1073.0	1234.7	1443.1	1642.5
45°	797.1	845.1	987.3	1179.5	1363.4
47.5°	606.5	658.7	783.4	957.3	1124.9
50°	493.6	545.9	668.9	822.1	983.0
52.5°	403.0	453.6	564.6	709.0	856.5
55°	286.4	334.4	431.7	554.2	681.7
57.5°	197.9	239.3	326.5	428.8	528.7
60°	143.2	182.9	265.0	348.0	429.5
62.5°	95.3	131.7	212.0	275.6	330.4
65°	32.1	61.3	136.8	165.0	183.8
67.5°	16.2	19.6	71.8	75.8	82.1
70°	12.8	12.8	34.2	36.5	42.7
72.5°	9.4	9.4	13.7	17.6	18.8
75°	4.3	4.3	2.1	0.0	0.0
77.5°	2.1	2.1	1.7	0.0	0.0
80°	2.1	2.1	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	2.0	4.1	4.4	4.4
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7

TEST NUMBER: P518874

CATALOG NUMBER: SQ4-BB-125U-125D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)