

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: P518564

Luminaire Tested: **SQ4-BB-075U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518564
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

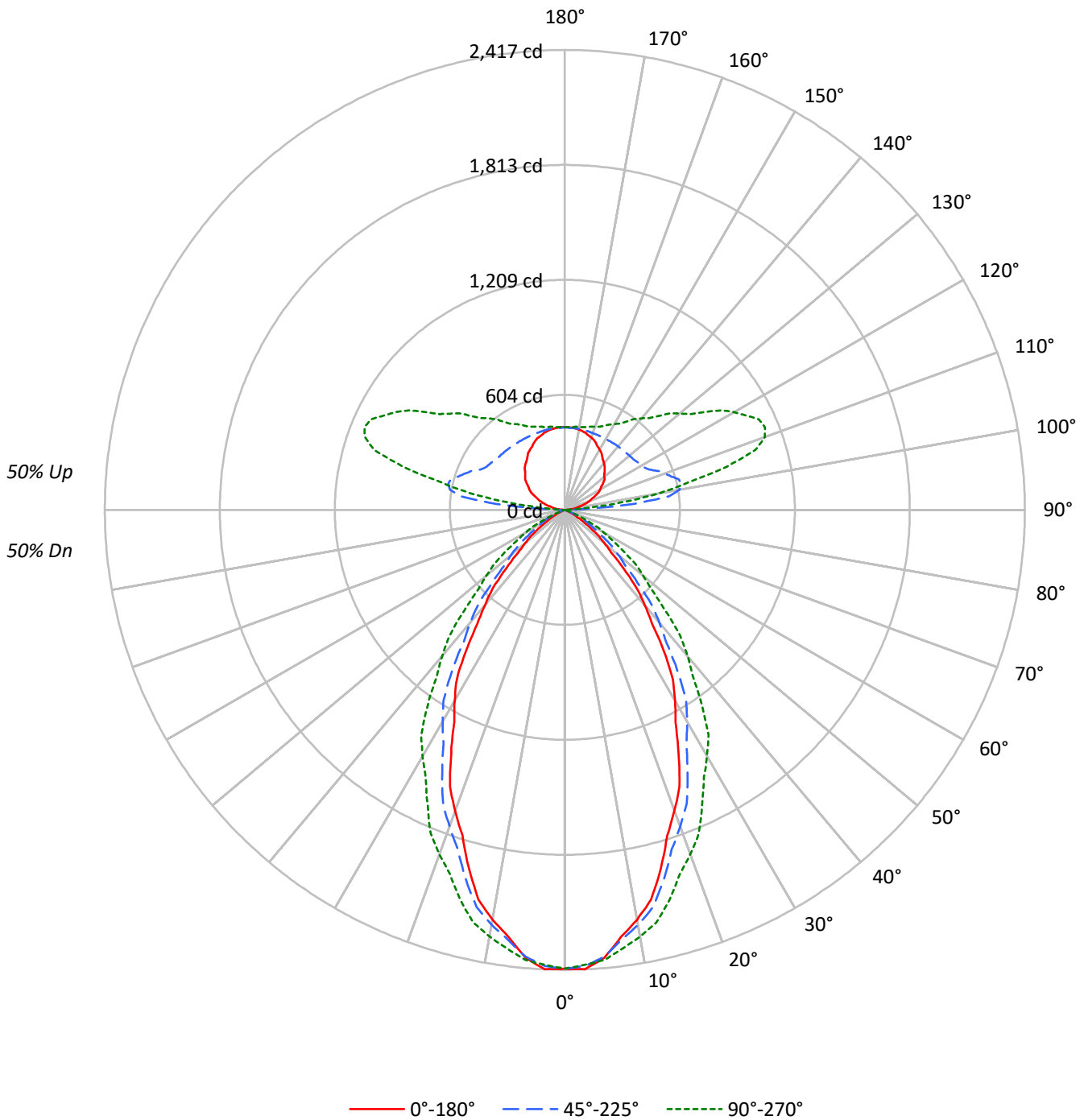
Lumens per Lamp: N/A
Luminaire Lumens: 5703.5 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 62.1
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°	22248	22248	22248
5°	21890	21837	21999
10°	20482	20755	21335
15°	18620	19211	20281
20°	16528	17387	18911
25°	14395	15535	17375
30°	12329	13684	15922
35°	10222	11616	14164
40°	7854	9287	12069
45°	5678	7033	9711
50°	3868	5242	7703
55°	2514	3791	5987
60°	1443	2670	4327
65°	382	1631	2190
70°	189	504	629
75°	82	43	0
80°	64	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.9
10°-20°	562.8	9.9
20°-30°	704.6	12.4
30°-40°	650.8	11.4
40°-50°	437.3	7.7
50°-60°	225.9	4.0
60°-70°	70.8	1.2
70°-80°	4.5	0.1
80°-90°	1.2	0.0
90°-100°	204.6	3.6
100°-110°	562.9	9.9
110°-120°	581.0	10.2
120°-130°	465.5	8.2
130°-140°	365.6	6.4
140°-150°	280.2	4.9
150°-160°	201.4	3.5
160°-170°	123.2	2.2
170°-180°	41.5	0.7
0°-30°	1487.4	26.1
0°-40°	2138.2	37.5
0°-60°	2801.3	49.1
0°-90°	2877.7	50.5
90°-120°	1348.4	23.6
90°-150°	2459.7	43.1
90°-180°	2826.0	49.5
0°-180°	5703.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2411	2411	2411	2411	2411	
5°	2364	2340	2358	2366	2375	219
15°	1949	1943	2011	2079	2123	543
25°	1414	1425	1526	1630	1707	648
35°	908	930	1031	1153	1258	562
45°	435	461	539	644	744	342
55°	156	183	236	303	372	146
65°	18	34	75	90	100	30
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	1	4	6	8	8	2
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2411.4	2411.4	2411.4	2411.4	2411.4
2.5°	2417.0	2394.2	2400.2	2400.1	2393.7
5°	2363.6	2339.6	2357.8	2366.1	2375.3
7.5°	2263.7	2245.0	2279.8	2305.9	2324.9
10°	2186.3	2170.3	2215.4	2251.0	2277.3
12.5°	2096.7	2084.4	2138.9	2187.7	2221.3
15°	1949.4	1942.6	2011.3	2078.8	2123.3
17.5°	1791.7	1791.5	1869.9	1953.7	2007.3
20°	1683.4	1686.9	1770.9	1863.4	1926.1
22.5°	1575.2	1583.2	1672.9	1769.3	1841.2
25°	1414.0	1425.4	1526.0	1630.4	1706.8
27.5°	1259.0	1275.7	1381.5	1490.0	1583.1
30°	1157.3	1176.7	1284.5	1398.6	1494.5
32.5°	1057.4	1080.5	1185.5	1306.3	1403.9
35°	907.6	930.5	1031.3	1152.7	1257.6
37.5°	752.9	775.3	873.8	993.3	1106.7
40°	652.1	677.2	771.1	886.9	1002.1
42.5°	560.7	585.8	674.1	787.8	896.7
45°	435.2	461.4	539.0	643.9	744.3
47.5°	331.1	359.6	427.7	522.6	614.1
50°	269.5	298.0	365.2	448.8	536.7
52.5°	220.0	247.6	308.2	387.1	467.6
55°	156.3	182.6	235.7	302.6	372.2
57.5°	108.0	130.6	178.3	234.1	288.6
60°	78.2	99.8	144.7	190.0	234.5
62.5°	52.0	71.9	115.7	150.5	180.4
65°	17.5	33.5	74.7	90.1	100.3
67.5°	8.9	10.7	39.2	41.4	44.8
70°	7.0	7.0	18.7	19.9	23.3
72.5°	5.1	5.1	7.5	9.6	10.3
75°	2.3	2.3	1.2	0.0	0.0
77.5°	1.2	1.2	0.9	0.0	0.0
80°	1.2	1.2	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°	0.2	0.7	1.3	1.7	1.7
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)