

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: P519101

Luminaire Tested: **SQ4-WB-050U-075D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519101
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

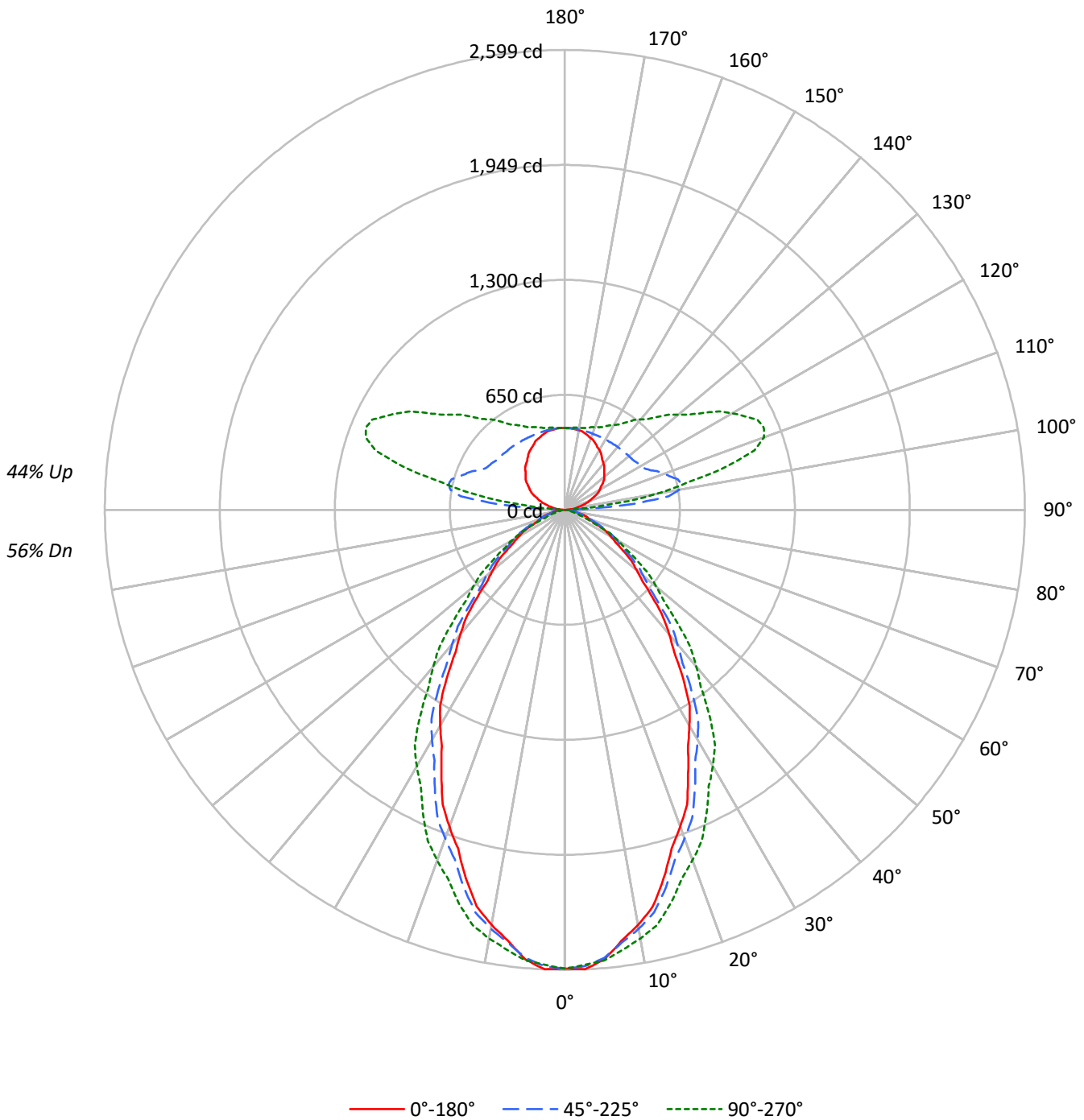
Lumens per Lamp: N/A
Luminaire Lumens: 6797.5 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56				56
1	100	96	93	90	93	90	87	84	78	76	74	66	65	64	56	55	54	49				49
2	92	86	80	76	86	80	75	71	70	66	63	60	57	55	51	49	48	43				43
3	85	77	70	65	79	72	66	61	63	58	55	54	51	48	46	44	42	38				38
4	79	69	62	56	73	65	58	53	57	52	48	49	46	43	42	40	38	34				34
5	73	62	55	49	68	58	52	47	51	46	42	45	41	38	39	36	34	31				31
6	68	56	49	43	63	53	46	41	47	42	38	41	37	34	36	33	30	28				28
7	63	51	44	39	59	49	42	37	43	38	34	38	34	31	33	30	28	25				25
8	59	47	40	35	55	45	38	33	40	34	31	35	31	28	31	28	25	23				23
9	55	43	36	31	51	41	35	30	37	32	28	33	29	26	29	26	23	21				21
10	52	40	33	29	48	38	32	28	34	29	26	30	26	23	27	24	21	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15013	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11186	11797	12854
30°	10002	10656	11877
35°	8747	9378	10719
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4307	4745	5331
60°	3681	4114	4254
65°	2930	3461	2748
70°	2599	2701	1678
75°	2405	2189	1027
80°	2217	2015	886
85°	2004	1849	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	3.5
10°-20°	618.5	9.1
20°-30°	801.2	11.8
30°-40°	784.5	11.5
40°-50°	600.5	8.8
50°-60°	400.1	5.9
60°-70°	218.4	3.2
70°-80°	91.0	1.3
80°-90°	27.5	0.4
90°-100°	221.9	3.3
100°-110°	602.8	8.9
110°-120°	619.7	9.1
120°-130°	495.5	7.3
130°-140°	389.3	5.7
140°-150°	298.5	4.4
150°-160°	214.7	3.2
160°-170°	131.3	1.9
170°-180°	44.2	0.7
0°-30°	1657.5	24.4
0°-40°	2442.0	35.9
0°-60°	3442.6	50.6
0°-90°	3779.5	55.6
90°-120°	1444.4	21.2
90°-150°	2627.7	38.7
90°-180°	3018.0	44.4
0°-180°	6797.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2550	2525	2541	2547	2556	237
15°	2157	2149	2207	2267	2306	602
25°	1648	1653	1738	1814	1894	758
35°	1165	1170	1249	1333	1428	724
45°	698	712	759	816	891	545
55°	402	418	442	459	497	364
65°	201	218	238	208	189	209
75°	101	101	92	63	43	108
85°	28	28	26	17	10	31
90°	2	6	10	13	13	4
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

TEST NUMBER: P519101

CATALOG NUMBER: SQ4-WB-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.5	2592.5	2592.5	2592.5	2592.5
2.5°	2598.9	2575.7	2581.6	2581.4	2574.3
5°	2550.4	2524.8	2541.3	2547.2	2556.1
7.5°	2455.8	2436.4	2466.5	2488.7	2506.7
10°	2382.1	2365.4	2403.7	2436.0	2459.4
12.5°	2296.5	2282.5	2330.0	2373.4	2403.9
15°	2156.8	2149.0	2206.9	2266.9	2305.8
17.5°	2007.3	2003.6	2069.9	2140.0	2189.8
20°	1905.4	1904.3	1977.1	2050.1	2107.9
22.5°	1802.6	1805.0	1881.5	1957.4	2023.3
25°	1648.3	1652.8	1738.2	1814.0	1894.0
27.5°	1505.7	1507.7	1596.0	1676.0	1761.4
30°	1408.3	1413.9	1500.4	1583.2	1672.2
32.5°	1310.9	1317.4	1402.2	1487.7	1578.5
35°	1164.9	1170.4	1249.0	1333.1	1427.6
37.5°	1014.2	1021.8	1091.6	1171.1	1264.1
40°	916.9	928.0	989.7	1064.6	1155.8
42.5°	823.1	836.9	894.1	965.2	1047.5
45°	698.5	711.8	758.8	816.2	890.7
47.5°	591.1	606.4	642.5	691.9	755.6
50°	530.1	544.6	577.9	614.5	674.6
52.5°	476.4	490.9	520.5	548.8	599.9
55°	401.6	418.2	442.5	459.3	497.1
57.5°	340.1	356.1	375.4	383.0	405.9
60°	299.2	317.0	334.4	333.6	345.8
62.5°	261.9	277.0	294.4	282.4	283.0
65°	201.3	218.0	237.8	207.7	188.8
67.5°	162.7	166.2	186.6	144.9	122.4
70°	144.5	144.5	150.2	112.2	93.3
72.5°	127.2	127.2	121.9	91.2	71.4
75°	101.2	101.2	92.1	63.2	43.2
77.5°	78.0	77.1	70.5	47.2	31.4
80°	62.6	62.6	56.9	37.3	25.0
82.5°	48.9	48.9	44.1	29.1	18.7
85°	28.4	28.4	26.2	16.9	10.2
87.5°	10.3	11.2	11.2	8.1	7.2
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4

TEST NUMBER: P519101

CATALOG NUMBER: SQ4-WB-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)