

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: P519109

Luminaire Tested: **SQ4-WB-050U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519109
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

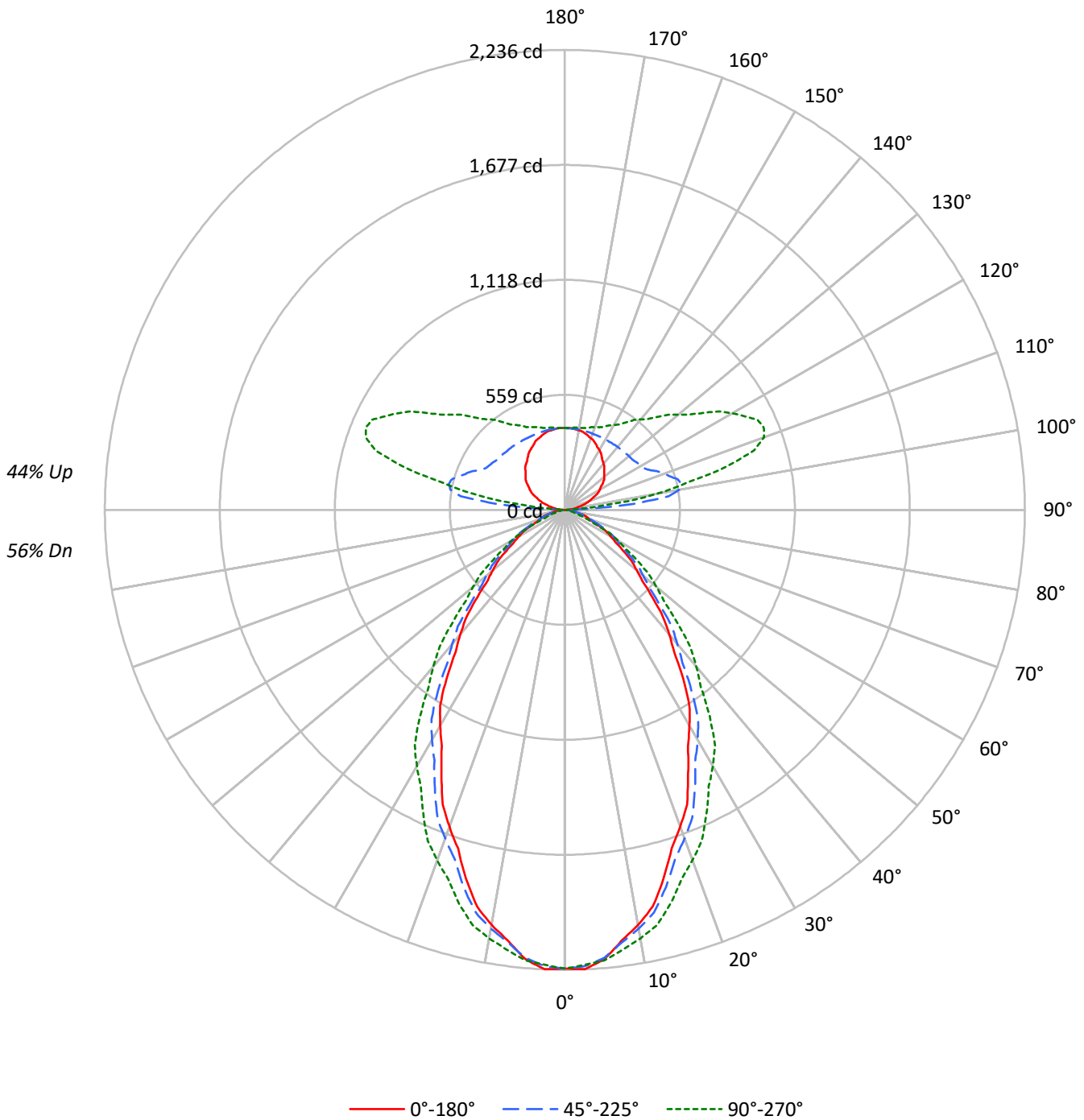
Lumens per Lamp: N/A
Luminaire Lumens: 5847.4 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12914	13214
15°	11815	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7525	8068	9221
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4585
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1442
75°	2070	1885	884
80°	1906	1732	762
85°	1729	1588	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	3.5
10°-20°	532.1	9.1
20°-30°	689.2	11.8
30°-40°	674.9	11.5
40°-50°	516.6	8.8
50°-60°	344.2	5.9
60°-70°	187.8	3.2
70°-80°	78.3	1.3
80°-90°	23.7	0.4
90°-100°	190.9	3.3
100°-110°	518.5	8.9
110°-120°	533.1	9.1
120°-130°	426.2	7.3
130°-140°	334.9	5.7
140°-150°	256.8	4.4
150°-160°	184.7	3.2
160°-170°	112.9	1.9
170°-180°	38.1	0.7
0°-30°	1425.8	24.4
0°-40°	2100.7	35.9
0°-60°	2961.5	50.6
0°-90°	3251.3	55.6
90°-120°	1242.5	21.2
90°-150°	2260.4	38.7
90°-180°	2596.0	44.4
0°-180°	5847.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2194	2172	2186	2191	2199	204
15°	1855	1849	1898	1950	1984	518
25°	1418	1422	1495	1560	1629	652
35°	1002	1007	1074	1147	1228	623
45°	601	612	653	702	766	469
55°	345	360	381	395	428	313
65°	173	188	204	179	162	180
75°	87	87	79	54	37	93
85°	24	24	22	14	9	27
90°	1	5	9	12	12	3
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.2	2230.2	2230.2	2230.2	2230.2
2.5°	2235.6	2215.7	2220.8	2220.6	2214.5
5°	2194.0	2171.9	2186.1	2191.2	2198.8
7.5°	2112.5	2095.9	2121.7	2140.9	2156.4
10°	2049.1	2034.8	2067.7	2095.6	2115.7
12.5°	1975.5	1963.5	2004.3	2041.7	2067.9
15°	1855.4	1848.7	1898.4	1950.1	1983.6
17.5°	1726.8	1723.5	1780.6	1840.9	1883.7
20°	1639.1	1638.1	1700.8	1763.5	1813.3
22.5°	1550.6	1552.7	1618.6	1683.8	1740.5
25°	1417.9	1421.8	1495.3	1560.4	1629.3
27.5°	1295.2	1297.0	1372.9	1441.7	1515.2
30°	1211.5	1216.3	1290.7	1362.0	1438.5
32.5°	1127.7	1133.3	1206.2	1279.8	1357.9
35°	1002.1	1006.8	1074.5	1146.8	1228.1
37.5°	872.5	879.0	939.0	1007.4	1087.4
40°	788.7	798.3	851.4	915.8	994.2
42.5°	708.1	720.0	769.2	830.3	901.1
45°	600.8	612.3	652.7	702.1	766.2
47.5°	508.5	521.7	552.7	595.2	650.0
50°	456.0	468.5	497.1	528.6	580.3
52.5°	409.8	422.3	447.8	472.1	516.1
55°	345.4	359.8	380.7	395.1	427.6
57.5°	292.6	306.4	322.9	329.4	349.2
60°	257.4	272.7	287.7	287.0	297.5
62.5°	225.3	238.3	253.3	242.9	243.5
65°	173.2	187.6	204.5	178.7	162.4
67.5°	139.9	143.0	160.5	124.6	105.3
70°	124.3	124.3	129.2	96.5	80.2
72.5°	109.4	109.4	104.9	78.5	61.5
75°	87.1	87.1	79.3	54.4	37.2
77.5°	67.1	66.4	60.7	40.6	27.0
80°	53.8	53.8	48.9	32.1	21.5
82.5°	42.1	42.1	38.0	25.0	16.0
85°	24.5	24.5	22.5	14.5	8.8
87.5°	8.9	9.6	9.6	7.0	6.2
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)