

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: P519093

Luminaire Tested: **SQ4-WB-050U-075D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519093
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

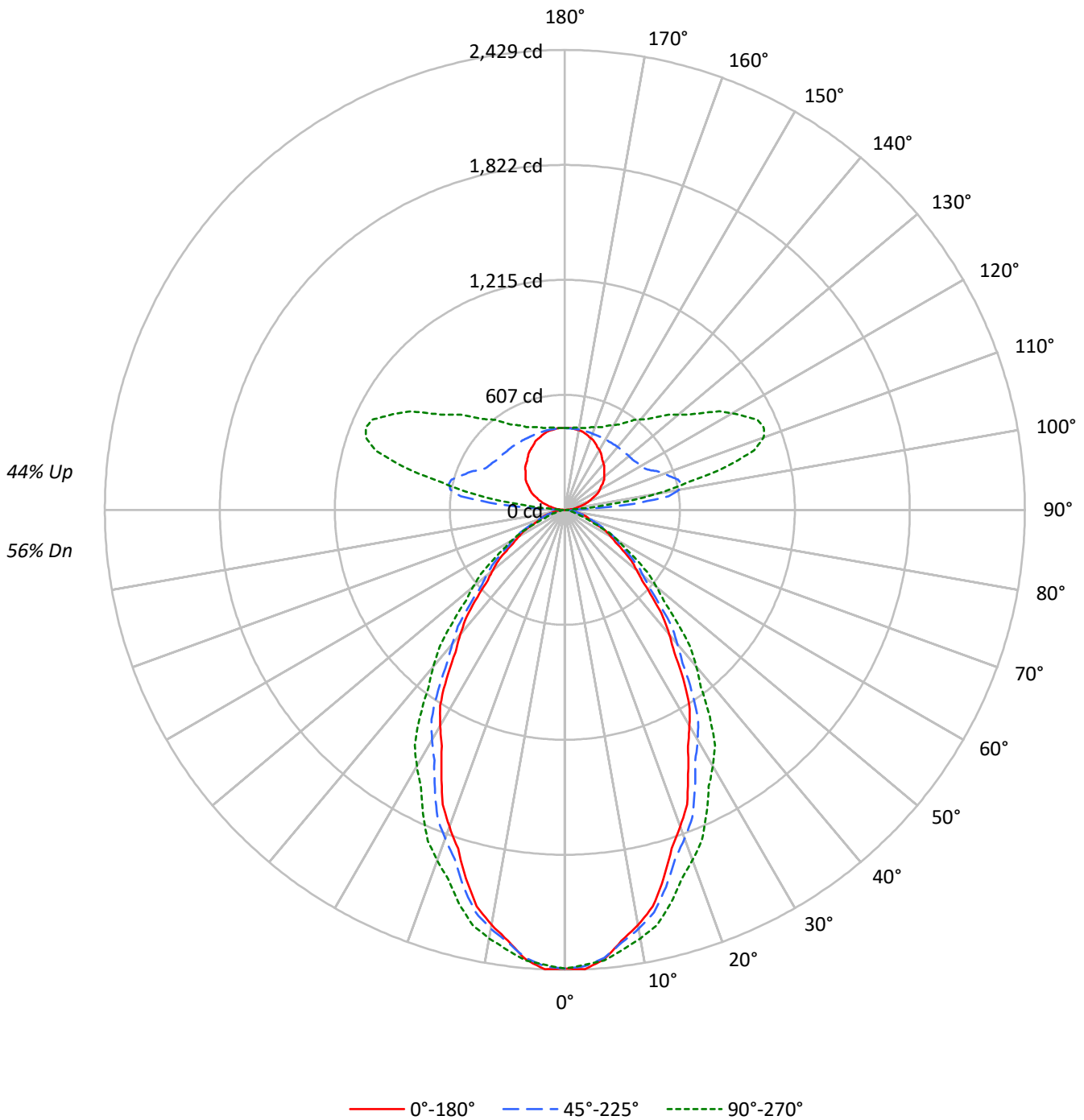
Lumens per Lamp: N/A
Luminaire Lumens: 6352.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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				
RC	80					70					50					30				
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°	14902	14902	14902
5°	14715	14663	14748
10°	13903	14029	14354
15°	12834	13132	13721
20°	11655	12094	12893
25°	10453	11024	12012
30°	9347	9958	11099
35°	8174	8764	10017
40°	6880	7425	8672
45°	5678	6167	7241
50°	4740	5167	6032
55°	4025	4434	4981
60°	3440	3844	3976
65°	2739	3234	2569
70°	2428	2523	1568
75°	2248	2046	960
80°	2072	1884	829
85°	1877	1722	677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	3.5
10°-20°	578.0	9.1
20°-30°	748.7	11.8
30°-40°	733.1	11.5
40°-50°	561.2	8.8
50°-60°	373.9	5.9
60°-70°	204.0	3.2
70°-80°	85.0	1.3
80°-90°	25.7	0.4
90°-100°	207.4	3.3
100°-110°	563.3	8.9
110°-120°	579.1	9.1
120°-130°	463.0	7.3
130°-140°	363.8	5.7
140°-150°	279.0	4.4
150°-160°	200.6	3.2
160°-170°	122.7	1.9
170°-180°	41.3	0.7
0°-30°	1548.9	24.4
0°-40°	2282.0	35.9
0°-60°	3217.1	50.6
0°-90°	3531.9	55.6
90°-120°	1349.8	21.2
90°-150°	2455.6	38.7
90°-180°	2820.0	44.4
0°-180°	6352.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2383	2359	2375	2380	2389	222
15°	2016	2008	2062	2118	2155	563
25°	1540	1544	1624	1695	1770	708
35°	1089	1094	1167	1246	1334	677
45°	653	665	709	763	832	509
55°	375	391	414	429	464	340
65°	188	204	222	194	176	196
75°	95	95	86	59	40	101
85°	27	27	24	16	10	29
90°	1	6	10	12	12	3
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2422.7	2422.7	2422.7	2422.7	2422.7
2.5°	2428.6	2407.0	2412.5	2412.3	2405.7
5°	2383.3	2359.4	2374.8	2380.3	2388.6
7.5°	2294.9	2276.8	2304.9	2325.7	2342.5
10°	2226.0	2210.4	2246.2	2276.5	2298.3
12.5°	2146.1	2133.0	2177.3	2217.9	2246.4
15°	2015.5	2008.2	2062.3	2118.4	2154.8
17.5°	1875.8	1872.3	1934.3	1999.8	2046.3
20°	1780.6	1779.5	1847.6	1915.8	1969.8
22.5°	1684.5	1686.8	1758.3	1829.2	1890.7
25°	1540.3	1544.5	1624.3	1695.1	1770.0
27.5°	1407.0	1408.9	1491.4	1566.2	1646.0
30°	1316.0	1321.2	1402.1	1479.5	1562.7
32.5°	1225.0	1231.1	1310.3	1390.3	1475.1
35°	1088.6	1093.7	1167.2	1245.8	1334.1
37.5°	947.8	954.9	1020.1	1094.4	1181.2
40°	856.8	867.2	924.8	994.8	1080.0
42.5°	769.2	782.1	835.5	901.9	978.8
45°	652.7	665.2	709.0	762.7	832.4
47.5°	552.4	566.7	600.4	646.6	706.1
50°	495.4	508.9	540.0	574.3	630.4
52.5°	445.2	458.7	486.4	512.8	560.6
55°	375.3	390.8	413.5	429.2	464.5
57.5°	317.8	332.8	350.8	357.9	379.3
60°	279.6	296.2	312.5	311.7	323.2
62.5°	244.7	258.8	275.1	263.9	264.5
65°	188.2	203.7	222.2	194.1	176.5
67.5°	152.0	155.3	174.3	135.4	114.4
70°	135.0	135.0	140.3	104.8	87.2
72.5°	118.8	118.8	114.0	85.3	66.8
75°	94.6	94.6	86.1	59.1	40.4
77.5°	72.9	72.1	65.9	44.1	29.3
80°	58.5	58.5	53.2	34.8	23.4
82.5°	45.7	45.7	41.2	27.2	17.4
85°	26.6	26.6	24.4	15.8	9.6
87.5°	9.6	10.4	10.4	7.6	6.8
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)