

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521725

Luminaire Tested: **SQ4-WB-025U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521725
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

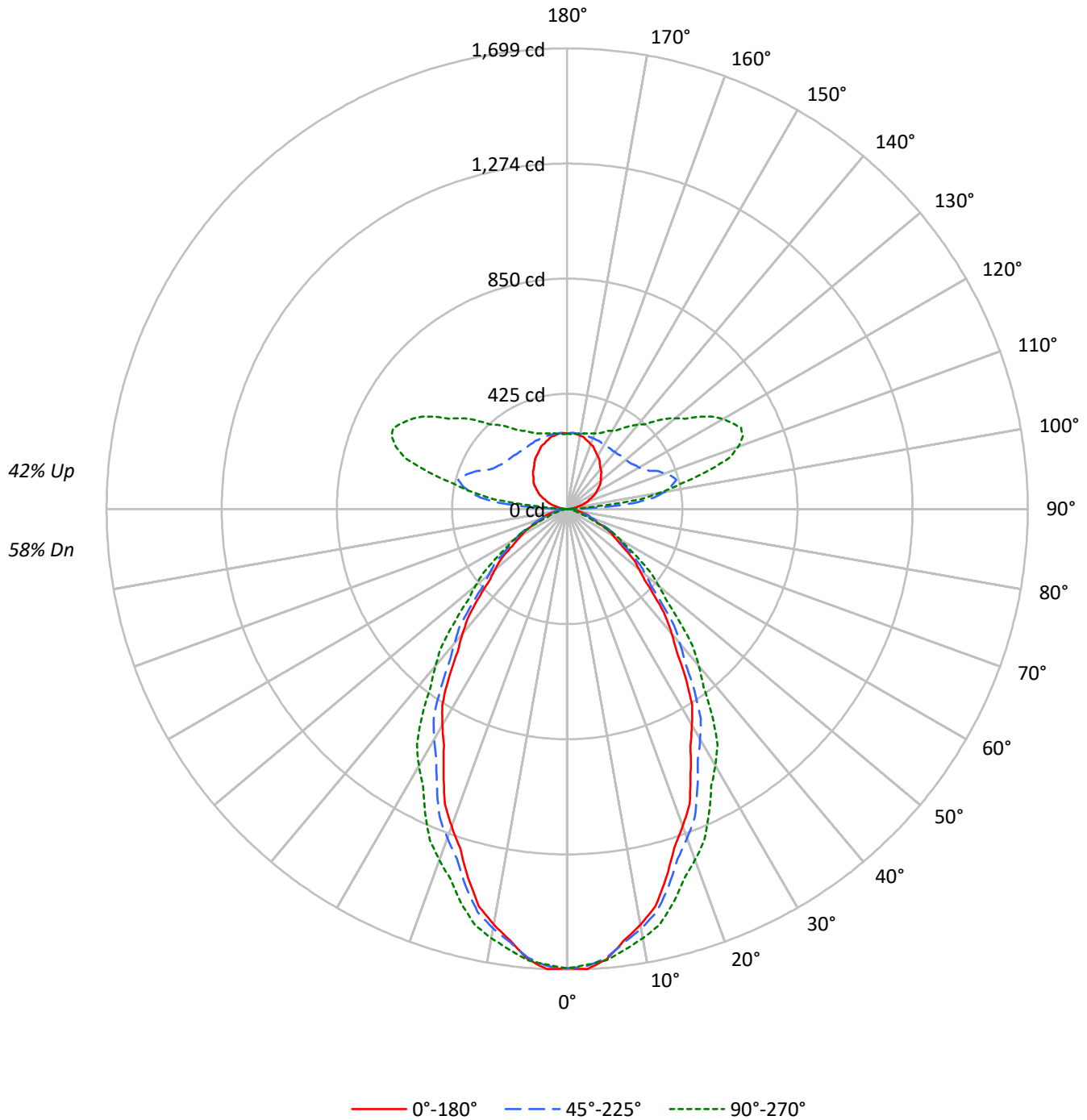
Lumens per Lamp: N/A
Luminaire Lumens: 4270.8 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.9
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58		
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51		
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45		
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40		
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36		
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32		
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29		
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26		
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24		
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22		
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15637	15637	15637
5°	15442	15387	15477
10°	14590	14722	15064
15°	13468	13781	14399
20°	12231	12690	13531
25°	10970	11569	12605
30°	9809	10450	11646
35°	8577	9197	10512
40°	7219	7792	9100
45°	5958	6472	7598
50°	4975	5423	6330
55°	4222	4654	5228
60°	3609	4034	4172
65°	2873	3393	2696
70°	2546	2649	1646
75°	2360	2146	1009
80°	2173	1976	871
85°	1969	1810	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.6
10°-20°	404.4	9.5
20°-30°	523.8	12.3
30°-40°	512.9	12.0
40°-50°	392.6	9.2
50°-60°	261.6	6.1
60°-70°	142.7	3.3
70°-80°	59.5	1.4
80°-90°	16.8	0.4
90°-100°	143.4	3.4
100°-110°	346.6	8.1
110°-120°	369.6	8.7
120°-130°	299.4	7.0
130°-140°	231.8	5.4
140°-150°	176.8	4.1
150°-160°	128.0	3.0
160°-170°	78.8	1.8
170°-180°	26.7	0.6
0°-30°	1083.6	25.4
0°-40°	1596.5	37.4
0°-60°	2250.6	52.7
0°-90°	2469.7	57.8
90°-120°	859.6	20.1
90°-150°	1567.6	36.7
90°-180°	1801.0	42.2
0°-180°	4270.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1667	1651	1661	1665	1671	155
15°	1410	1405	1443	1482	1508	394
25°	1078	1080	1136	1186	1238	496
35°	762	765	817	872	933	473
45°	457	465	496	534	582	356
55°	262	273	289	300	325	238
65°	132	142	155	136	124	137
75°	66	66	60	41	28	71
85°	19	19	17	11	7	20
90°	0	0	0	0	0	2
95°	14	72	246	160	112	16
105°	55	96	416	539	532	58
115°	101	130	335	634	708	100
125°	144	166	290	505	593	129
135°	177	198	279	398	458	137
145°	210	225	273	338	365	131
155°	240	251	277	300	310	111
165°	266	270	280	285	289	75
175°	281	280	281	279	278	27
180°	278	278	278	278	278	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.9	1694.9	1694.9	1694.9	1694.9
2.5°	1699.0	1683.9	1687.7	1687.6	1683.0
5°	1667.3	1650.6	1661.4	1665.3	1671.1
7.5°	1605.5	1592.8	1612.5	1627.0	1638.8
10°	1557.3	1546.4	1571.4	1592.6	1607.9
12.5°	1501.4	1492.2	1523.2	1551.6	1571.6
15°	1410.0	1404.9	1442.8	1482.0	1507.5
17.5°	1312.3	1309.8	1353.2	1399.0	1431.6
20°	1245.7	1245.0	1292.5	1340.2	1378.1
22.5°	1178.4	1180.0	1230.1	1279.7	1322.7
25°	1077.6	1080.5	1136.4	1185.9	1238.2
27.5°	984.3	985.7	1043.4	1095.7	1151.5
30°	920.7	924.3	980.9	1035.0	1093.2
32.5°	857.0	861.2	916.7	972.6	1031.9
35°	761.5	765.2	816.6	871.5	933.3
37.5°	663.1	668.0	713.6	765.6	826.4
40°	599.4	606.7	647.0	696.0	755.6
42.5°	538.1	547.1	584.5	631.0	684.8
45°	456.6	465.4	496.0	533.6	582.3
47.5°	386.4	396.5	420.0	452.4	494.0
50°	346.6	356.0	377.8	401.7	441.0
52.5°	311.5	320.9	340.3	358.8	392.2
55°	262.5	273.4	289.3	300.3	325.0
57.5°	222.4	232.8	245.4	250.4	265.3
60°	195.6	207.2	218.6	218.1	226.1
62.5°	171.2	181.1	192.5	184.6	185.0
65°	131.6	142.5	155.4	135.8	123.5
67.5°	106.3	108.7	122.0	94.7	80.0
70°	94.4	94.4	98.2	73.3	61.0
72.5°	83.1	83.1	79.7	59.6	46.7
75°	66.2	66.2	60.2	41.3	28.3
77.5°	51.0	50.4	46.1	30.9	20.5
80°	40.9	40.9	37.2	24.4	16.4
82.5°	32.0	32.0	28.9	19.0	12.2
85°	18.6	18.6	17.1	11.1	6.7
87.5°	6.5	6.5	5.9	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	38.8	91.4	44.5	30.2
95°	14.1	71.7	245.7	159.8	111.9
97.5°	25.1	79.5	323.6	311.7	267.6
100°	33.6	84.3	366.5	386.8	350.6
102.5°	41.6	88.6	394.7	449.4	427.9
105°	55.4	95.7	416.5	538.9	532.0
107.5°	68.9	104.1	403.7	610.7	627.0
110°	78.4	111.2	383.0	641.7	672.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.8	118.3	364.6	649.3	701.5
115°	101.3	129.6	334.6	634.4	707.6
117.5°	114.8	141.4	317.1	600.3	686.0
120°	123.7	148.5	305.8	573.5	663.4
122.5°	133.2	156.1	298.7	546.2	634.7
125°	144.3	166.2	290.5	504.6	592.7
127.5°	155.4	176.0	284.7	469.3	546.7
130°	162.0	182.2	282.8	444.8	520.8
132.5°	168.1	189.2	280.0	427.1	491.6
135°	177.3	198.1	278.7	397.9	457.8
137.5°	186.1	206.9	274.6	378.1	423.3
140°	192.7	211.7	274.6	363.9	405.3
142.5°	199.3	218.3	272.2	351.5	386.5
145°	209.7	225.3	273.4	338.2	364.7
147.5°	219.5	234.6	272.7	322.9	344.8
150°	225.7	238.9	274.6	316.2	333.5
152.5°	232.3	245.0	274.1	309.1	324.5
155°	240.4	250.8	276.9	299.5	310.5
157.5°	250.2	259.0	276.3	295.9	302.4
160°	253.9	261.4	278.7	291.2	295.8
162.5°	260.1	266.6	277.7	289.7	292.5
165°	265.7	269.7	280.4	284.7	288.7
167.5°	272.7	275.3	279.7	284.3	284.5
170°	274.6	276.3	281.6	281.1	284.0
172.5°	277.9	279.1	280.2	281.5	279.7
175°	281.0	279.9	281.0	278.7	278.1
177.5°	280.4	280.4	279.5	278.5	276.2
180°	278.1	278.1	278.1	278.1	278.1

(END OF REPORT)