

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: P519216

Luminaire Tested: **SQ4-WB-075U-100D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519216
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

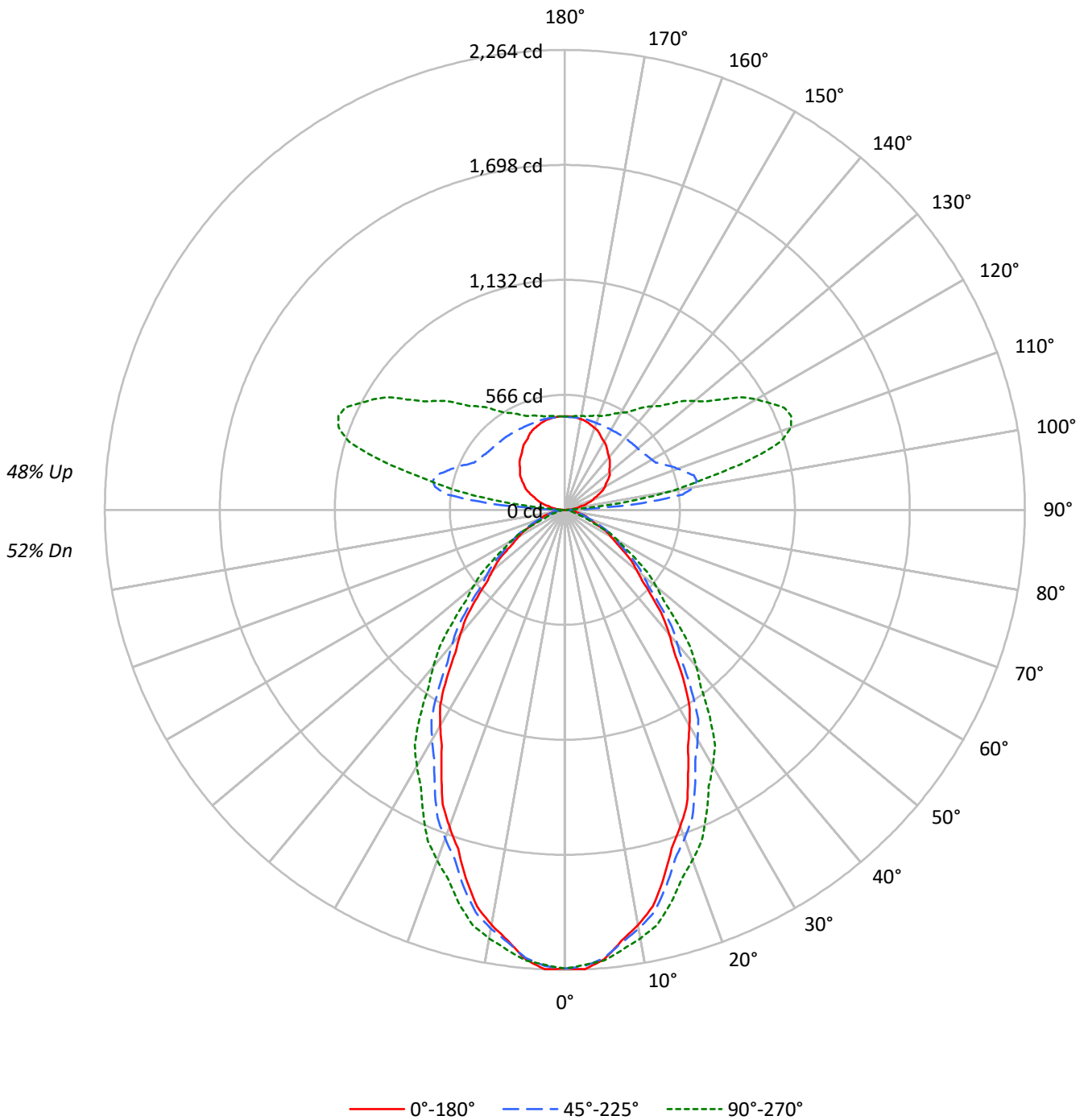
Lumens per Lamp: N/A
Luminaire Lumens: 6285.4 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19614	20068
15°	17944	18360	19184
20°	16294	16907	18026
25°	14615	15413	16794
30°	13068	13923	15517
35°	11428	12253	14006
40°	9618	10382	12125
45°	7938	8623	10122
50°	6627	7224	8433
55°	5627	6199	6965
60°	4809	5375	5558
65°	3829	4521	3591
70°	3394	3528	2190
75°	3144	2862	1344
80°	2896	2630	1158
85°	2625	2414	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	3.3
10°-20°	538.7	8.6
20°-30°	697.8	11.1
30°-40°	683.3	10.9
40°-50°	523.0	8.3
50°-60°	348.5	5.5
60°-70°	190.2	3.0
70°-80°	79.3	1.3
80°-90°	23.6	0.4
90°-100°	216.8	3.4
100°-110°	596.3	9.5
110°-120°	615.5	9.8
120°-130°	493.1	7.8
130°-140°	387.3	6.2
140°-150°	296.8	4.7
150°-160°	213.4	3.4
160°-170°	130.5	2.1
170°-180°	44.0	0.7
0°-30°	1443.6	23.0
0°-40°	2127.0	33.8
0°-60°	2998.5	47.7
0°-90°	3291.6	52.4
90°-120°	1428.6	22.7
90°-150°	2605.9	41.5
90°-180°	2994.0	47.6
0°-180°	6285.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2221	2199	2214	2219	2226	207
15°	1879	1872	1922	1974	2008	525
25°	1436	1440	1514	1580	1650	660
35°	1015	1019	1088	1161	1244	631
45°	608	620	661	711	776	474
55°	350	364	385	400	433	317
65°	175	190	207	181	164	182
75°	88	88	80	55	38	94
85°	25	25	23	15	9	27
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2258.0	2258.0	2258.0	2258.0	2258.0
2.5°	2263.6	2243.4	2248.5	2248.4	2242.2
5°	2221.4	2199.1	2213.5	2218.6	2226.3
7.5°	2139.0	2122.1	2148.3	2167.6	2183.3
10°	2074.7	2060.2	2093.6	2121.8	2142.1
12.5°	2000.2	1988.0	2029.4	2067.2	2093.8
15°	1878.6	1871.8	1922.2	1974.5	2008.4
17.5°	1748.4	1745.1	1802.9	1863.9	1907.3
20°	1659.6	1658.6	1722.0	1785.6	1836.0
22.5°	1570.0	1572.2	1638.8	1704.9	1762.2
25°	1435.7	1439.6	1514.0	1579.9	1649.7
27.5°	1311.4	1313.2	1390.1	1459.8	1534.2
30°	1226.6	1231.5	1306.9	1379.0	1456.5
32.5°	1141.8	1147.4	1221.3	1295.8	1374.8
35°	1014.6	1019.4	1087.9	1161.1	1243.5
37.5°	883.4	890.0	950.8	1020.0	1101.0
40°	798.6	808.3	862.0	927.2	1006.7
42.5°	716.9	729.0	778.8	840.6	912.3
45°	608.4	620.0	660.9	710.9	775.8
47.5°	514.8	528.2	559.6	602.7	658.1
50°	461.7	474.3	503.3	535.2	587.5
52.5°	414.9	427.5	453.4	478.0	522.6
55°	349.8	364.3	385.4	400.0	433.0
57.5°	296.3	310.2	327.0	333.6	353.5
60°	260.6	276.1	291.3	290.5	301.2
62.5°	228.1	241.3	256.4	245.9	246.5
65°	175.4	189.9	207.1	180.9	164.5
67.5°	141.7	144.8	162.5	126.2	106.6
70°	125.8	125.8	130.8	97.7	81.2
72.5°	110.8	110.8	106.2	79.5	62.2
75°	88.2	88.2	80.3	55.1	37.7
77.5°	68.0	67.2	61.4	41.1	27.3
80°	54.5	54.5	49.5	32.5	21.8
82.5°	42.6	42.6	38.4	25.4	16.2
85°	24.8	24.8	22.8	14.7	8.9
87.5°	8.9	9.5	9.3	6.5	5.7
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)