

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: P521846

Luminaire Tested: **SQ4-WB-075U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521846
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-075U-100D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

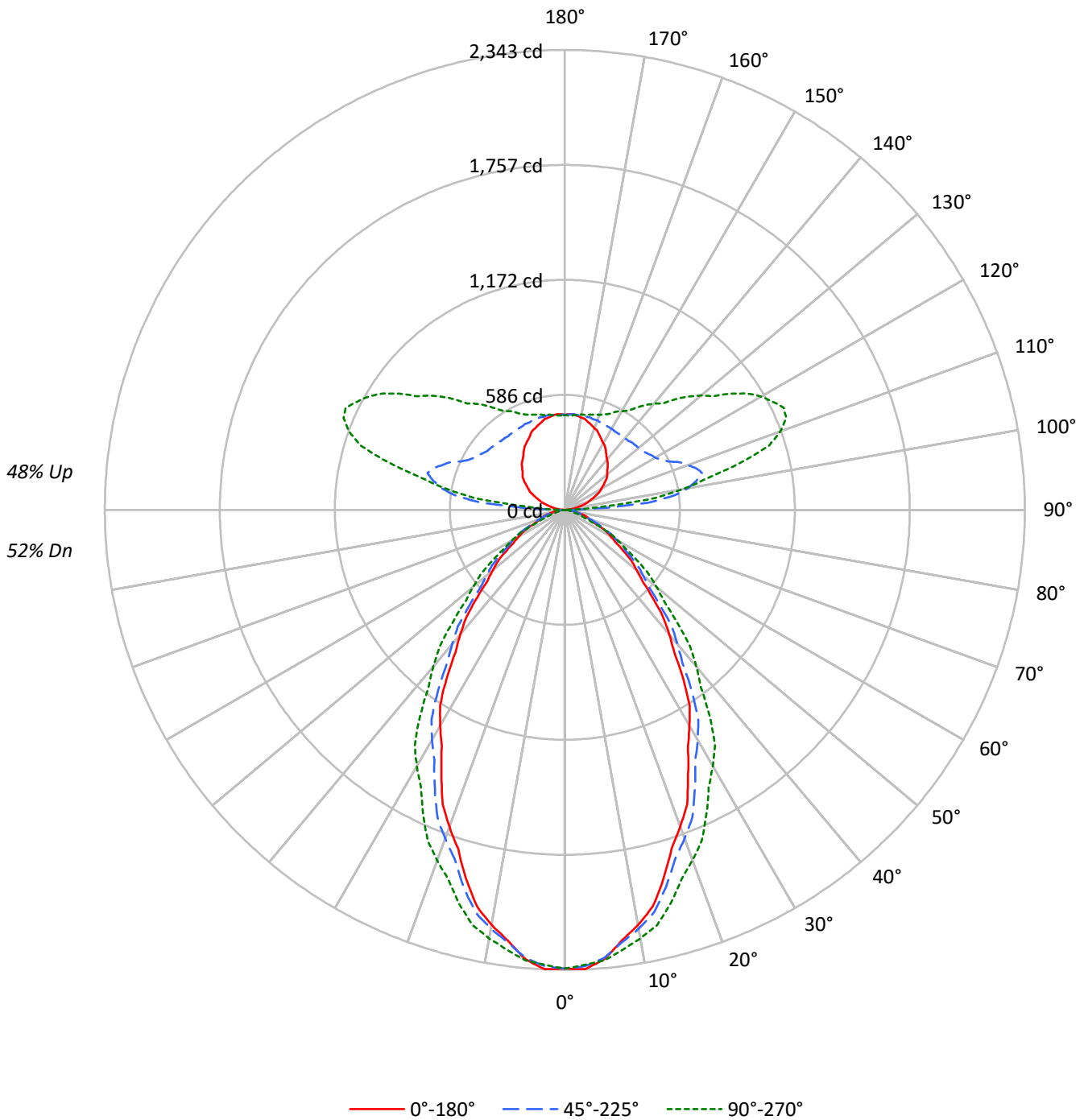
Lumens per Lamp: N/A
Luminaire Lumens: 6537.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.9
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				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	84	84	84	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	51	46
2	92	85	79	75	85	79	74	70	68	64	61	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	46	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	47	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	39	36	37	34	32	29
6	67	56	48	43	62	52	45	41	46	40	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	36	32	29	31	28	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	50	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	25	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21561	21561	21561
5°	21292	21216	21339
10°	20116	20299	20769
15°	18570	19001	19853
20°	16864	17498	18656
25°	15125	15950	17380
30°	13525	14409	16058
35°	11826	12681	14495
40°	9954	10744	12547
45°	8215	8923	10476
50°	6858	7477	8728
55°	5823	6416	7208
60°	4977	5563	5752
65°	3962	4678	3716
70°	3512	3652	2269
75°	3255	2962	1390
80°	2997	2726	1201
85°	2710	2498	974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.3
10°-20°	557.5	8.5
20°-30°	722.2	11.0
30°-40°	707.2	10.8
40°-50°	541.3	8.3
50°-60°	360.7	5.5
60°-70°	196.8	3.0
70°-80°	82.0	1.3
80°-90°	23.2	0.4
90°-100°	249.4	3.8
100°-110°	602.8	9.2
110°-120°	642.9	9.8
120°-130°	520.7	8.0
130°-140°	403.1	6.2
140°-150°	307.5	4.7
150°-160°	222.6	3.4
160°-170°	137.1	2.1
170°-180°	46.4	0.7
0°-30°	1494.0	22.9
0°-40°	2201.2	33.7
0°-60°	3103.2	47.5
0°-90°	3405.3	52.1
90°-120°	1495.1	22.9
90°-150°	2726.5	41.7
90°-180°	3133.0	47.9
0°-180°	6537.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2299	2276	2291	2296	2304	214
15°	1944	1937	1989	2043	2078	543
25°	1486	1490	1567	1635	1707	683
35°	1050	1055	1126	1202	1287	653
45°	630	642	684	736	803	491
55°	362	377	399	414	448	328
65°	182	196	214	187	170	189
75°	91	91	83	57	39	97
85°	26	26	24	15	9	28
90°	0	0	0	0	0	2
95°	25	125	427	278	195	28
105°	96	166	724	937	925	102
115°	176	225	582	1103	1231	174
125°	251	289	505	878	1031	224
135°	308	344	485	692	796	238
145°	365	392	476	588	634	228
155°	418	436	482	521	540	193
165°	462	469	488	495	502	130
175°	489	487	489	485	484	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2336.9	2336.9	2336.9	2336.9	2336.9
2.5°	2342.6	2321.8	2327.1	2326.9	2320.5
5°	2299.0	2275.9	2290.8	2296.1	2304.1
7.5°	2213.6	2196.2	2223.3	2243.3	2259.6
10°	2147.2	2132.2	2166.7	2195.9	2216.9
12.5°	2070.1	2057.5	2100.2	2139.4	2166.9
15°	1944.2	1937.1	1989.3	2043.4	2078.5
17.5°	1809.4	1806.0	1865.8	1929.0	1973.9
20°	1717.6	1716.6	1782.2	1847.9	1900.1
22.5°	1624.9	1627.1	1696.0	1764.4	1823.8
25°	1485.8	1489.8	1566.8	1635.1	1707.3
27.5°	1357.2	1359.0	1438.6	1510.7	1587.7
30°	1269.5	1274.5	1352.5	1427.1	1507.3
32.5°	1181.7	1187.5	1263.9	1341.0	1422.9
35°	1050.0	1055.0	1125.9	1201.7	1286.9
37.5°	914.3	921.1	984.0	1055.6	1139.4
40°	826.5	836.5	892.1	959.6	1041.8
42.5°	742.0	754.4	806.0	870.0	944.2
45°	629.6	641.6	683.9	735.7	802.9
47.5°	532.8	546.6	579.1	623.7	681.1
50°	477.8	490.9	520.9	553.9	608.1
52.5°	429.4	442.5	469.2	494.7	540.8
55°	362.0	377.0	398.9	414.0	448.1
57.5°	306.6	321.0	338.4	345.2	365.9
60°	269.7	285.7	301.5	300.7	311.7
62.5°	236.0	249.7	265.4	254.5	255.1
65°	181.5	196.5	214.3	187.3	170.2
67.5°	146.6	149.8	168.2	130.6	110.3
70°	130.2	130.2	135.4	101.1	84.1
72.5°	114.6	114.6	109.9	82.2	64.4
75°	91.3	91.3	83.1	57.0	39.0
77.5°	70.3	69.5	63.6	42.5	28.3
80°	56.4	56.4	51.3	33.6	22.6
82.5°	44.1	44.1	39.8	26.2	16.8
85°	25.6	25.6	23.6	15.2	9.2
87.5°	9.0	9.0	8.2	4.9	4.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.2	67.5	159.0	77.3	52.5
95°	24.6	124.8	427.3	277.9	194.7
97.5°	43.7	138.2	562.8	542.2	465.4
100°	58.4	146.6	637.4	672.8	609.7
102.5°	72.3	154.1	686.6	781.6	744.2
105°	96.3	166.5	724.5	937.3	925.3
107.5°	119.9	181.0	702.1	1062.3	1090.5
110°	136.3	193.4	666.1	1116.1	1169.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	152.7	205.8	634.1	1129.3	1220.0
115°	176.3	225.3	582.0	1103.4	1230.7
117.5°	199.6	245.9	551.5	1044.1	1193.2
120°	215.2	258.3	531.8	997.5	1153.8
122.5°	231.6	271.5	519.5	949.9	1103.8
125°	251.1	289.1	505.2	877.6	1030.9
127.5°	270.3	306.2	495.1	816.3	950.9
130°	281.8	316.9	491.9	773.6	905.9
132.5°	292.5	329.1	486.9	742.8	855.0
135°	308.4	344.5	484.7	692.0	796.2
137.5°	323.6	359.9	477.5	657.6	736.2
140°	335.1	368.1	477.5	632.9	705.0
142.5°	346.6	379.6	473.4	611.3	672.2
145°	364.8	391.9	475.5	588.2	634.3
147.5°	381.8	408.1	474.2	561.6	599.7
150°	392.5	415.5	477.5	549.9	580.0
152.5°	403.9	426.2	476.7	537.6	564.4
155°	418.1	436.1	481.6	521.0	540.0
157.5°	435.1	450.5	480.6	514.7	525.9
160°	441.7	454.7	484.7	506.4	514.4
162.5°	452.3	463.7	483.1	503.9	508.7
165°	462.2	469.2	487.8	495.1	502.1
167.5°	474.2	478.9	486.5	494.5	494.7
170°	477.5	480.5	489.8	488.9	493.9
172.5°	483.3	485.5	487.4	489.5	486.5
175°	488.8	486.8	488.8	484.7	483.7
177.5°	487.8	487.8	486.1	484.4	480.4
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)