

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: P521843

Luminaire Tested: **SQ4-WB-075U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521843
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

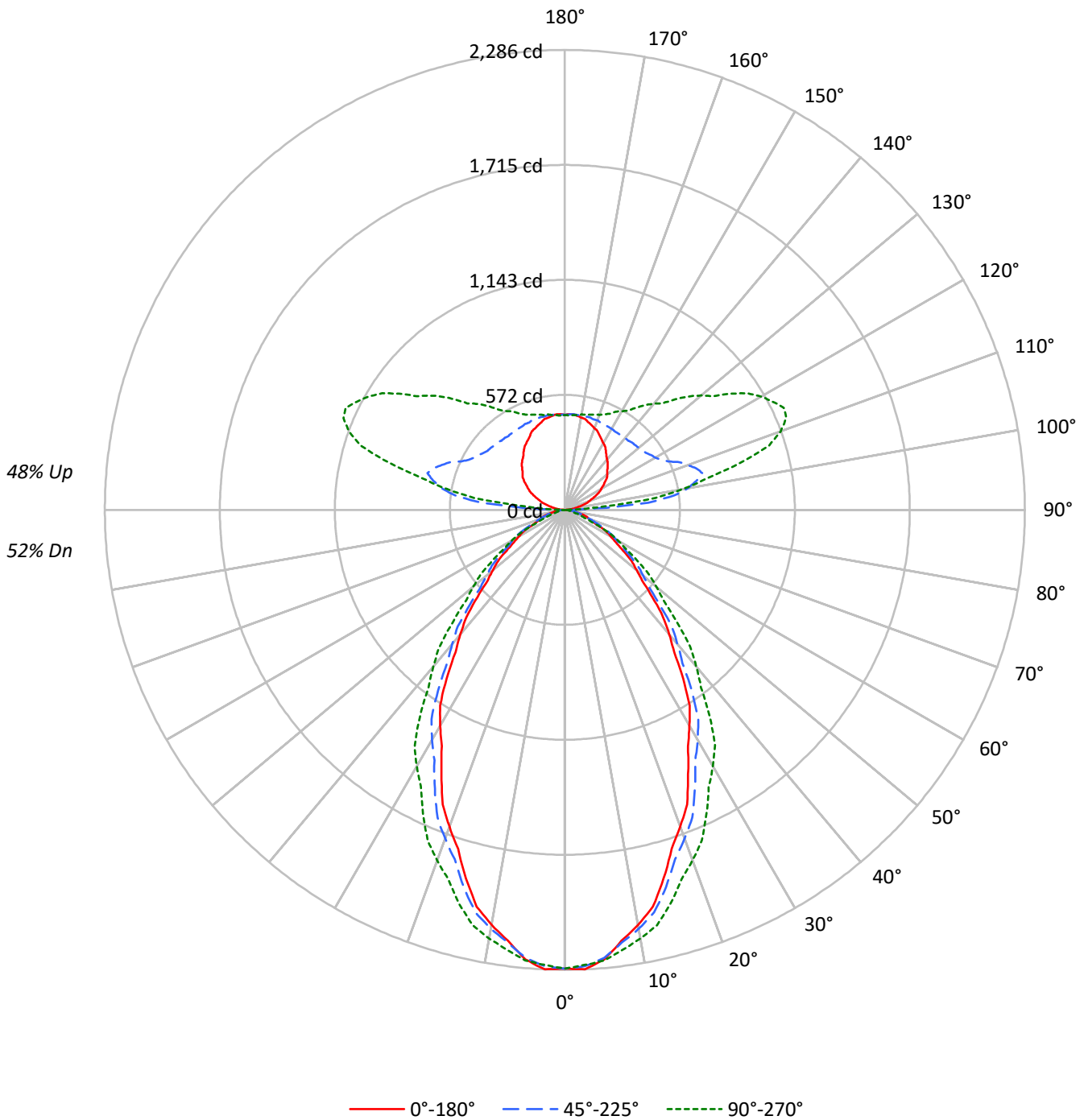
Lumens per Lamp: N/A
Luminaire Lumens: 6380.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.1
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	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°	21040	21040	21040
5°	20778	20704	20824
10°	19631	19809	20268
15°	18122	18543	19374
20°	16456	17076	18205
25°	14761	15565	16961
30°	13198	14062	15671
35°	11541	12375	14144
40°	9713	10485	12245
45°	8017	8708	10223
50°	6693	7296	8517
55°	5681	6262	7034
60°	4857	5429	5613
65°	3866	4565	3626
70°	3429	3563	2215
75°	3176	2891	1355
80°	2922	2657	1169
85°	2646	2435	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	3.3
10°-20°	544.1	8.5
20°-30°	704.7	11.0
30°-40°	690.1	10.8
40°-50°	528.2	8.3
50°-60°	352.0	5.5
60°-70°	192.1	3.0
70°-80°	80.0	1.3
80°-90°	22.7	0.4
90°-100°	243.4	3.8
100°-110°	588.2	9.2
110°-120°	627.4	9.8
120°-130°	508.1	8.0
130°-140°	393.4	6.2
140°-150°	300.1	4.7
150°-160°	217.3	3.4
160°-170°	133.8	2.1
170°-180°	45.3	0.7
0°-30°	1458.0	22.9
0°-40°	2148.1	33.7
0°-60°	3028.3	47.5
0°-90°	3323.1	52.1
90°-120°	1459.0	22.9
90°-150°	2660.7	41.7
90°-180°	3057.0	47.9
0°-180°	6380.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2244	2221	2236	2241	2248	209
15°	1897	1890	1941	1994	2028	530
25°	1450	1454	1529	1596	1666	667
35°	1025	1030	1099	1173	1256	637
45°	614	626	667	718	784	479
55°	353	368	389	404	437	320
65°	177	192	209	183	166	184
75°	89	89	81	56	38	95
85°	25	25	23	15	9	27
90°	0	0	0	0	0	2
95°	24	122	417	271	190	27
105°	94	162	707	915	903	99
115°	172	220	568	1077	1201	170
125°	245	282	493	856	1006	219
135°	301	336	473	675	777	232
145°	356	382	464	574	619	223
155°	408	426	470	508	527	188
165°	451	458	476	483	490	127
175°	477	475	477	473	472	45
180°	472	472	472	472	472	

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CATALOG NUMBER: SQ4-WB-075U-100D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.5	2280.5	2280.5	2280.5	2280.5
2.5°	2286.1	2265.8	2270.9	2270.8	2264.5
5°	2243.5	2221.0	2235.5	2240.7	2248.5
7.5°	2160.2	2143.2	2169.6	2189.2	2205.1
10°	2095.4	2080.7	2114.4	2142.9	2163.4
12.5°	2020.1	2007.8	2049.6	2087.8	2114.6
15°	1897.3	1890.4	1941.3	1994.1	2028.3
17.5°	1765.8	1762.4	1820.8	1882.4	1926.3
20°	1676.1	1675.1	1739.2	1803.4	1854.2
22.5°	1585.7	1587.8	1655.1	1721.9	1779.8
25°	1450.0	1453.9	1529.0	1595.7	1666.1
27.5°	1324.5	1326.2	1403.9	1474.3	1549.4
30°	1238.8	1243.7	1319.9	1392.7	1471.0
32.5°	1153.2	1158.8	1233.4	1308.7	1388.5
35°	1024.7	1029.6	1098.7	1172.7	1255.8
37.5°	892.2	898.8	960.2	1030.1	1111.9
40°	806.5	816.3	870.6	936.4	1016.7
42.5°	724.1	736.2	786.5	849.0	921.4
45°	614.4	626.1	667.4	718.0	783.5
47.5°	519.9	533.4	565.2	608.7	664.6
50°	466.3	479.0	508.3	540.6	593.4
52.5°	419.1	431.8	457.9	482.7	527.8
55°	353.2	367.9	389.3	404.0	437.3
57.5°	299.2	313.3	330.2	336.9	357.0
60°	263.2	278.8	294.2	293.4	304.2
62.5°	230.4	243.7	259.0	248.4	249.0
65°	177.1	191.8	209.1	182.7	166.1
67.5°	143.1	146.2	164.1	127.4	107.7
70°	127.1	127.1	132.1	98.7	82.1
72.5°	111.9	111.9	107.3	80.3	62.8
75°	89.1	89.1	81.1	55.6	38.0
77.5°	68.6	67.9	62.0	41.5	27.6
80°	55.0	55.0	50.0	32.8	22.0
82.5°	43.0	43.0	38.8	25.6	16.4
85°	25.0	25.0	23.0	14.9	9.0
87.5°	8.8	8.8	8.0	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	65.9	155.2	75.4	51.2
95°	24.0	121.8	417.0	271.2	190.0
97.5°	42.6	134.9	549.2	529.1	454.2
100°	57.0	143.0	622.0	656.6	595.0
102.5°	70.6	150.4	670.0	762.8	726.2
105°	94.0	162.4	707.0	914.7	903.0
107.5°	117.0	176.6	685.2	1036.6	1064.2
110°	133.0	188.7	650.0	1089.2	1141.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.0	200.8	618.8	1102.0	1190.6
115°	172.0	219.9	568.0	1076.8	1201.0
117.5°	194.8	240.0	538.2	1018.9	1164.4
120°	210.0	252.0	519.0	973.5	1126.0
122.5°	226.0	264.9	507.0	927.0	1077.2
125°	245.0	282.2	493.0	856.4	1006.0
127.5°	263.8	298.8	483.2	796.6	928.0
130°	275.0	309.2	480.0	754.9	884.0
132.5°	285.4	321.2	475.2	724.9	834.4
135°	301.0	336.2	473.0	675.3	777.0
137.5°	315.8	351.2	466.0	641.7	718.4
140°	327.0	359.3	466.0	617.6	688.0
142.5°	338.2	370.5	462.0	596.6	656.0
145°	356.0	382.4	464.0	574.0	619.0
147.5°	372.6	398.2	462.8	548.0	585.2
150°	383.0	405.5	466.0	536.7	566.0
152.5°	394.2	415.9	465.2	524.6	550.8
155°	408.0	425.6	470.0	508.4	527.0
157.5°	424.6	439.7	469.0	502.2	513.2
160°	431.0	443.7	473.0	494.2	502.0
162.5°	441.4	452.5	471.4	491.7	496.4
165°	451.0	457.8	476.0	483.2	490.0
167.5°	462.8	467.3	474.8	482.6	482.8
170°	466.0	468.9	478.0	477.1	482.0
172.5°	471.6	473.8	475.6	477.7	474.8
175°	477.0	475.0	477.0	473.0	472.0
177.5°	476.0	476.0	474.4	472.7	468.8
180°	472.0	472.0	472.0	472.0	472.0

(END OF REPORT)