

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: P519007

Luminaire Tested: **SQ4-WB-025U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519007
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

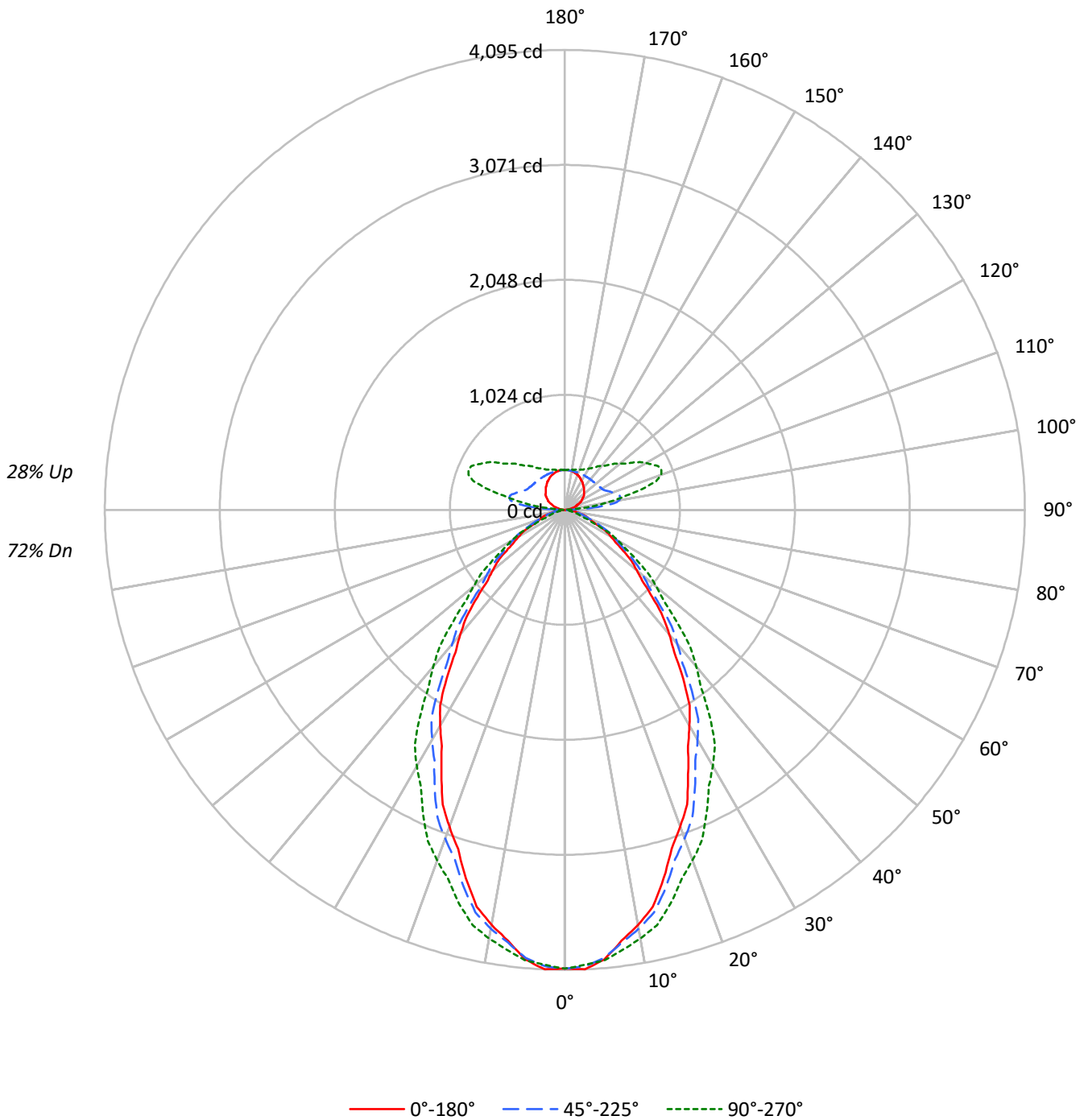
Lumens per Lamp: N/A
Luminaire Lumens: 8260.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12563	12563	12563
5°	12406	12362	12433
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3241	3352
65°	2309	2726	2165
70°	2047	2127	1322
75°	1895	1725	809
80°	1746	1587	698
85°	1581	1454	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	4.5
10°-20°	974.6	11.8
20°-30°	1262.3	15.3
30°-40°	1236.1	15.0
40°-50°	946.2	11.5
50°-60°	630.5	7.6
60°-70°	344.1	4.2
70°-80°	143.4	1.7
80°-90°	42.5	0.5
90°-100°	173.4	2.1
100°-110°	455.8	5.5
110°-120°	472.7	5.7
120°-130°	379.1	4.6
130°-140°	297.5	3.6
140°-150°	228.3	2.8
150°-160°	164.5	2.0
160°-170°	100.6	1.2
170°-180°	34.0	0.4
0°-30°	2611.6	31.6
0°-40°	3847.7	46.6
0°-60°	5424.4	65.7
0°-90°	5954.3	72.1
90°-120°	1101.9	13.3
90°-150°	2006.9	24.3
90°-180°	2306.0	27.9
0°-180°	8260.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4085	4085	4085	4085	4085	
5°	4019	3978	4004	4014	4028	374
15°	3398	3386	3477	3572	3633	949
25°	2597	2604	2739	2858	2984	1194
35°	1835	1844	1968	2100	2250	1141
45°	1100	1122	1196	1286	1404	858
55°	633	659	697	724	783	574
65°	317	344	375	327	298	330
75°	160	160	145	100	68	170
85°	45	45	41	27	16	49
90°	2	7	18	9	9	4
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4084.9	4084.9	4084.9	4084.9	4084.9
2.5°	4094.9	4058.5	4067.7	4067.4	4056.2
5°	4018.6	3978.3	4004.2	4013.5	4027.5
7.5°	3869.4	3838.9	3886.3	3921.3	3949.7
10°	3753.3	3727.0	3787.3	3838.4	3875.2
12.5°	3618.5	3596.4	3671.2	3739.7	3787.7
15°	3398.4	3386.1	3477.3	3571.9	3633.2
17.5°	3162.9	3156.9	3261.5	3371.9	3450.4
20°	3002.3	3000.5	3115.2	3230.2	3321.3
22.5°	2840.2	2844.1	2964.6	3084.2	3188.0
25°	2597.2	2604.2	2738.8	2858.2	2984.3
27.5°	2372.4	2375.6	2514.7	2640.8	2775.4
30°	2219.0	2227.8	2364.2	2494.6	2634.8
32.5°	2065.6	2075.7	2209.3	2344.1	2487.1
35°	1835.4	1844.2	1968.1	2100.5	2249.5
37.5°	1598.1	1610.0	1720.0	1845.2	1991.7
40°	1444.7	1462.2	1559.4	1677.4	1821.1
42.5°	1297.0	1318.7	1408.8	1520.8	1650.4
45°	1100.5	1121.6	1195.5	1286.0	1403.5
47.5°	931.3	955.5	1012.3	1090.3	1190.5
50°	835.3	858.0	910.5	968.3	1062.9
52.5°	750.7	773.4	820.2	864.7	945.3
55°	632.7	659.0	697.2	723.7	783.3
57.5°	535.9	561.2	591.5	603.4	639.5
60°	471.4	499.4	527.0	525.6	544.9
62.5°	412.6	436.4	463.9	444.9	445.9
65°	317.3	343.5	374.6	327.3	297.5
67.5°	256.3	261.9	294.0	228.3	192.9
70°	227.6	227.6	236.6	176.8	147.0
72.5°	200.4	200.4	192.1	143.8	112.6
75°	159.5	159.5	145.2	99.7	68.1
77.5°	123.0	121.6	111.1	74.4	49.5
80°	98.6	98.6	89.6	58.7	39.4
82.5°	77.1	77.1	69.5	45.9	29.4
85°	44.8	44.8	41.2	26.6	16.1
87.5°	16.2	17.1	18.0	10.4	9.0
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)