

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: P519295

Luminaire Tested: **SQ4-WB-0U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519295
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

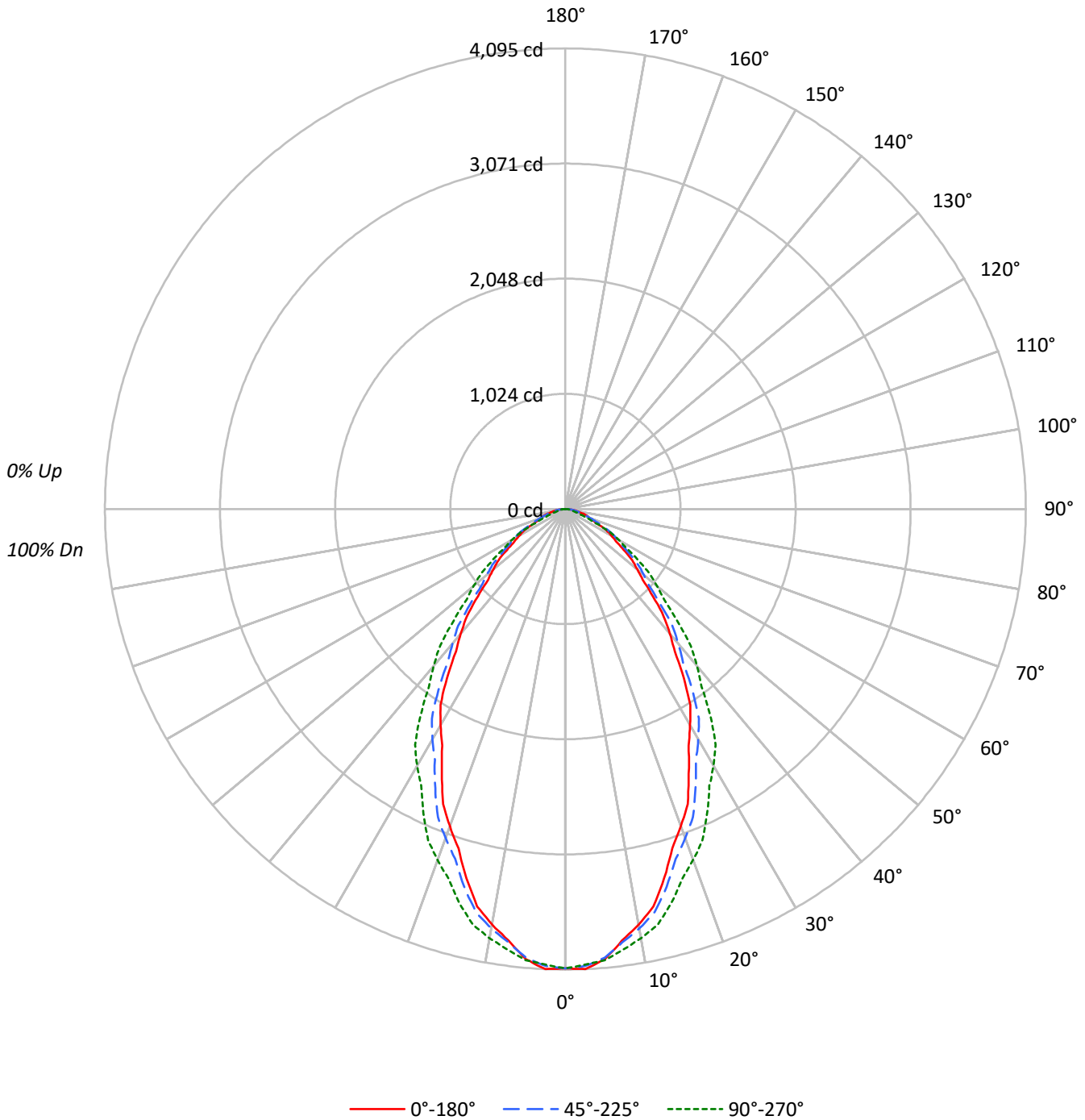
Lumens per Lamp: N/A
Luminaire Lumens: 5952.4 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46	41	37	35

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	6.3
10°-20°	974.6	16.4
20°-30°	1262.3	21.2
30°-40°	1236.1	20.8
40°-50°	946.2	15.9
50°-60°	630.5	10.6
60°-70°	344.1	5.8
70°-80°	143.4	2.4
80°-90°	40.6	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2611.6	43.9
0°-40°	3847.7	64.6
0°-60°	5424.4	91.1
0°-90°	5952.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5952.4	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	51
90°	0	0	0	0	0	



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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°	15.8	15.8	14.3	8.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)