

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: P519293

Luminaire Tested: **SQ4-WB-0U-075D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519293
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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

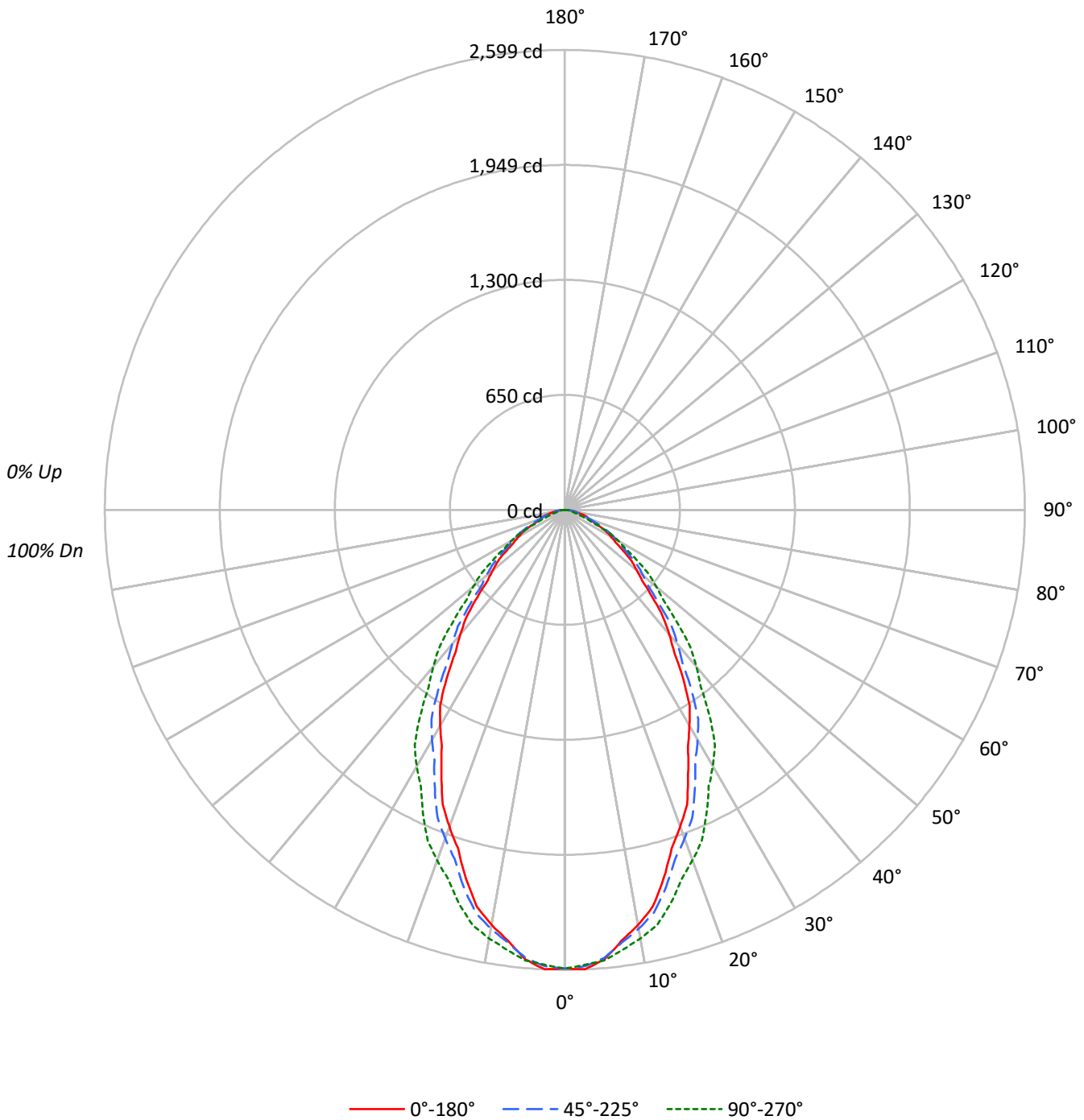
Lumens per Lamp: N/A
Luminaire Lumens: 3777.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15013	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11186	11797	12854
30°	10002	10656	11877
35°	8747	9378	10719
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4307	4745	5331
60°	3681	4114	4254
65°	2930	3461	2748
70°	2599	2701	1678
75°	2405	2189	1027
80°	2217	2015	886
85°	2004	1849	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	6.3
10°-20°	618.5	16.4
20°-30°	801.2	21.2
30°-40°	784.5	20.8
40°-50°	600.5	15.9
50°-60°	400.1	10.6
60°-70°	218.4	5.8
70°-80°	91.0	2.4
80°-90°	25.8	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°	1657.5	43.9
0°-40°	2442.0	64.6
0°-60°	3442.6	91.1
0°-90°	3777.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2550	2525	2541	2547	2556	237
15°	2157	2149	2207	2267	2306	602
25°	1648	1653	1738	1814	1894	758
35°	1165	1170	1249	1333	1428	724
45°	698	712	759	816	891	545
55°	402	418	442	459	497	364
65°	201	218	238	208	189	209
75°	101	101	92	63	43	108
85°	28	28	26	17	10	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.5	2592.5	2592.5	2592.5	2592.5
2.5°	2598.9	2575.7	2581.6	2581.4	2574.3
5°	2550.4	2524.8	2541.3	2547.2	2556.1
7.5°	2455.8	2436.4	2466.5	2488.7	2506.7
10°	2382.1	2365.4	2403.7	2436.0	2459.4
12.5°	2296.5	2282.5	2330.0	2373.4	2403.9
15°	2156.8	2149.0	2206.9	2266.9	2305.8
17.5°	2007.3	2003.6	2069.9	2140.0	2189.8
20°	1905.4	1904.3	1977.1	2050.1	2107.9
22.5°	1802.6	1805.0	1881.5	1957.4	2023.3
25°	1648.3	1652.8	1738.2	1814.0	1894.0
27.5°	1505.7	1507.7	1596.0	1676.0	1761.4
30°	1408.3	1413.9	1500.4	1583.2	1672.2
32.5°	1310.9	1317.4	1402.2	1487.7	1578.5
35°	1164.9	1170.4	1249.0	1333.1	1427.6
37.5°	1014.2	1021.8	1091.6	1171.1	1264.1
40°	916.9	928.0	989.7	1064.6	1155.8
42.5°	823.1	836.9	894.1	965.2	1047.5
45°	698.5	711.8	758.8	816.2	890.7
47.5°	591.1	606.4	642.5	691.9	755.6
50°	530.1	544.6	577.9	614.5	674.6
52.5°	476.4	490.9	520.5	548.8	599.9
55°	401.6	418.2	442.5	459.3	497.1
57.5°	340.1	356.1	375.4	383.0	405.9
60°	299.2	317.0	334.4	333.6	345.8
62.5°	261.9	277.0	294.4	282.4	283.0
65°	201.3	218.0	237.8	207.7	188.8
67.5°	162.7	166.2	186.6	144.9	122.4
70°	144.5	144.5	150.2	112.2	93.3
72.5°	127.2	127.2	121.9	91.2	71.4
75°	101.2	101.2	92.1	63.2	43.2
77.5°	78.0	77.1	70.5	47.2	31.4
80°	62.6	62.6	56.9	37.3	25.0
82.5°	48.9	48.9	44.1	29.1	18.7
85°	28.4	28.4	26.2	16.9	10.2
87.5°	10.0	10.0	9.1	5.4	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)