

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: P519302

Luminaire Tested: **SQ4-WB-0U-075D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519302
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

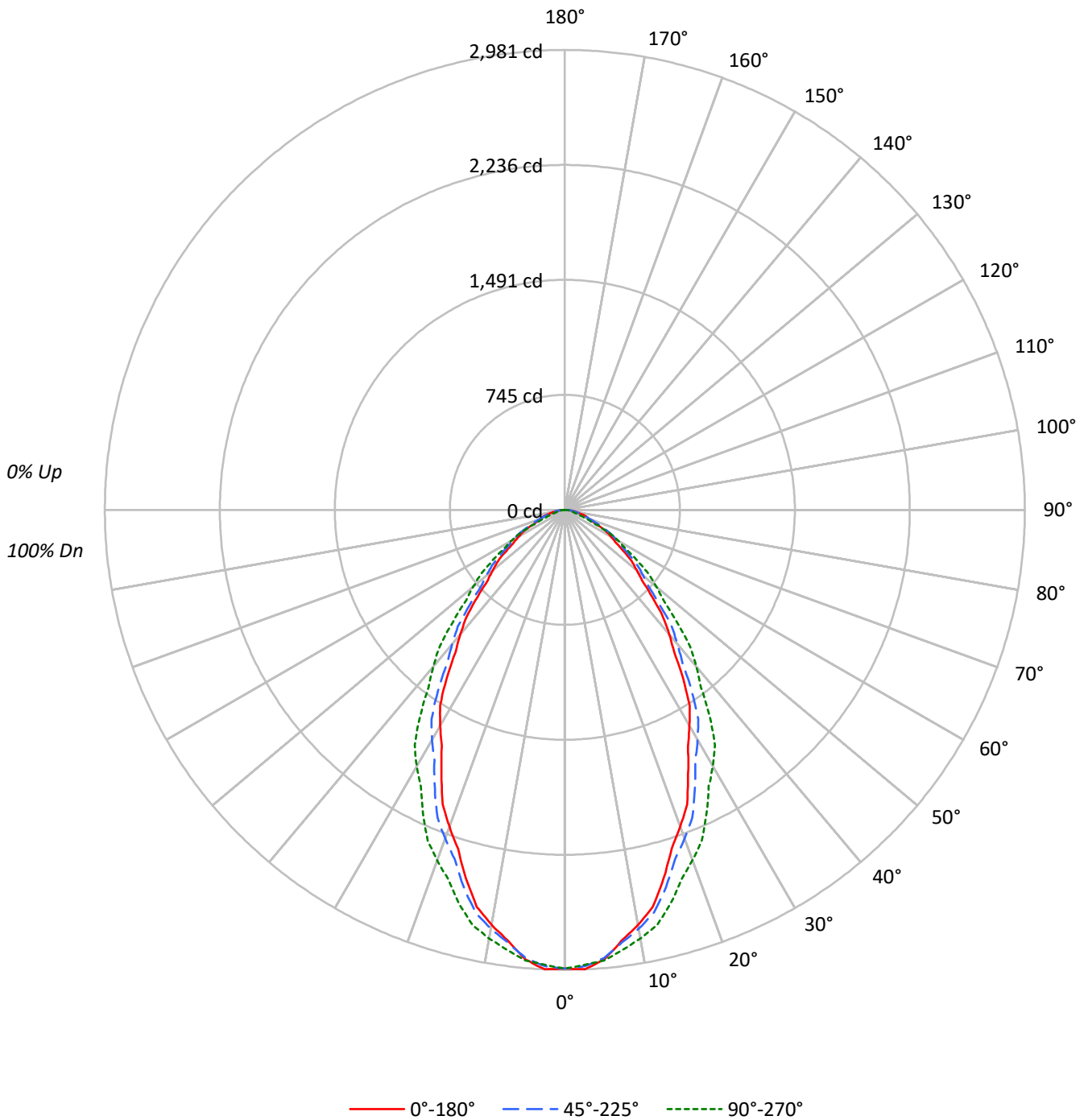
Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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				
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°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12915	13214
15°	11814	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7524	8068	9222
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3659
65°	2520	2977	2364
70°	2235	2323	1443
75°	2069	1884	884
80°	1907	1732	762
85°	1725	1588	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	6.3
10°-20°	709.4	16.4
20°-30°	918.9	21.2
30°-40°	899.8	20.8
40°-50°	688.8	15.9
50°-60°	459.0	10.6
60°-70°	250.5	5.8
70°-80°	104.4	2.4
80°-90°	29.5	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°	1901.1	43.9
0°-40°	2800.9	64.6
0°-60°	3948.6	91.1
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2925	2896	2915	2922	2932	272
15°	2474	2465	2531	2600	2645	691
25°	1891	1896	1994	2081	2172	869
35°	1336	1342	1433	1529	1638	831
45°	801	816	870	936	1022	625
55°	461	480	508	527	570	418
65°	231	250	273	238	217	240
75°	116	116	106	72	50	124
85°	33	33	30	19	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2973.6	2973.6	2973.6	2973.6	2973.6
2.5°	2980.9	2954.3	2961.0	2960.8	2952.7
5°	2925.3	2895.9	2914.8	2921.6	2931.8
7.5°	2816.7	2794.5	2829.0	2854.5	2875.2
10°	2732.2	2713.0	2757.0	2794.1	2820.9
12.5°	2634.1	2618.0	2672.4	2722.3	2757.2
15°	2473.8	2464.9	2531.2	2600.1	2644.8
17.5°	2302.4	2298.0	2374.1	2454.5	2511.7
20°	2185.5	2184.2	2267.7	2351.4	2417.7
22.5°	2067.5	2070.3	2158.1	2245.1	2320.6
25°	1890.6	1895.7	1993.7	2080.6	2172.4
27.5°	1727.0	1729.3	1830.6	1922.3	2020.3
30°	1615.3	1621.7	1721.0	1815.9	1918.0
32.5°	1503.6	1511.0	1608.2	1706.4	1810.5
35°	1336.1	1342.5	1432.6	1529.0	1637.5
37.5°	1163.3	1172.0	1252.0	1343.2	1449.9
40°	1051.6	1064.4	1135.1	1221.0	1325.6
42.5°	944.1	959.9	1025.5	1107.0	1201.4
45°	801.1	816.4	870.3	936.2	1021.6
47.5°	678.0	695.6	736.9	793.6	866.6
50°	608.0	624.6	662.8	704.8	773.7
52.5°	546.4	563.0	597.1	629.4	688.1
55°	460.6	479.7	507.6	526.8	570.2
57.5°	390.1	408.5	430.6	439.3	465.5
60°	343.2	363.6	383.6	382.6	396.6
62.5°	300.4	317.7	337.7	323.9	324.6
65°	230.9	250.1	272.7	238.3	216.6
67.5°	186.6	190.7	214.0	166.2	140.4
70°	165.7	165.7	172.2	128.7	107.0
72.5°	145.9	145.9	139.9	104.6	81.9
75°	116.1	116.1	105.7	72.5	49.6
77.5°	89.5	88.5	80.9	54.1	36.0
80°	71.8	71.8	65.2	42.7	28.7
82.5°	56.1	56.1	50.6	33.4	21.4
85°	32.6	32.6	30.0	19.4	11.7
87.5°	11.5	11.5	10.4	6.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)