

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: P521880

Luminaire Tested: **SQ4-WB-0U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521880
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

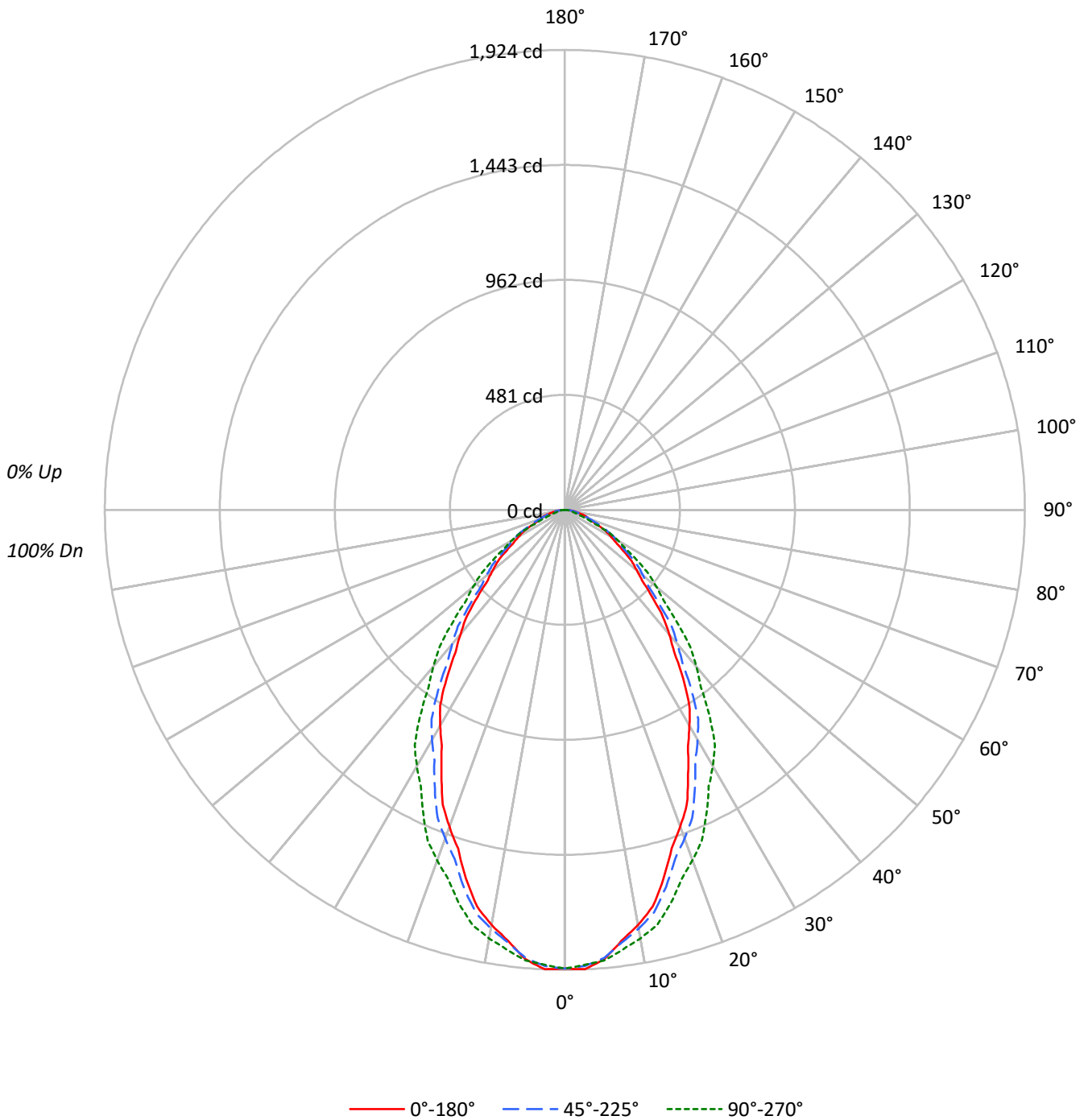
Lumens per Lamp: N/A
Luminaire Lumens: 2796.1 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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°	17704	17704	17704
5°	17483	17421	17522
10°	16518	16668	17054
15°	15248	15602	16302
20°	13847	14368	15319
25°	12420	13098	14271
30°	11105	11832	13186
35°	9711	10413	11902
40°	8173	8822	10304
45°	6746	7328	8602
50°	5632	6139	7167
55°	4781	5268	5918
60°	4085	4567	4724
65°	3253	3842	3052
70°	2884	2997	1861
75°	2670	2431	1141
80°	2460	2237	983
85°	2223	2054	805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	6.3
10°-20°	457.8	16.4
20°-30°	593.0	21.2
30°-40°	580.7	20.8
40°-50°	444.5	15.9
50°-60°	296.2	10.6
60°-70°	161.6	5.8
70°-80°	67.3	2.4
80°-90°	19.1	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°	1226.8	43.9
0°-40°	1807.5	64.6
0°-60°	2548.1	91.1
0°-90°	2796.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1888	1869	1881	1885	1892	176
15°	1596	1591	1633	1678	1707	446
25°	1220	1223	1287	1343	1402	561
35°	862	866	924	987	1057	536
45°	517	527	562	604	659	403
55°	297	310	328	340	368	269
65°	149	161	176	154	140	155
75°	75	75	68	47	32	80
85°	21	21	19	12	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918.9	1918.9	1918.9	1918.9	1918.9
2.5°	1923.6	1906.5	1910.8	1910.7	1905.4
5°	1887.7	1868.8	1881.0	1885.4	1891.9
7.5°	1817.7	1803.3	1825.6	1842.1	1855.4
10°	1763.1	1750.8	1779.1	1803.1	1820.4
12.5°	1699.8	1689.4	1724.6	1756.7	1779.3
15°	1596.4	1590.6	1633.4	1677.9	1706.7
17.5°	1485.8	1483.0	1532.1	1583.9	1620.8
20°	1410.3	1409.5	1463.4	1517.4	1560.2
22.5°	1334.2	1336.0	1392.6	1448.8	1497.6
25°	1220.0	1223.3	1286.6	1342.6	1401.9
27.5°	1114.4	1115.9	1181.3	1240.5	1303.7
30°	1042.4	1046.5	1110.6	1171.9	1237.7
32.5°	970.3	975.1	1037.8	1101.2	1168.3
35°	862.2	866.3	924.5	986.7	1056.7
37.5°	750.7	756.3	808.0	866.8	935.6
40°	678.6	686.9	732.5	787.9	855.5
42.5°	609.3	619.5	661.8	714.4	775.3
45°	517.0	526.9	561.6	604.1	659.3
47.5°	437.5	448.9	475.6	512.2	559.2
50°	392.4	403.1	427.7	454.8	499.3
52.5°	352.6	363.3	385.3	406.2	444.1
55°	297.2	309.6	327.5	340.0	367.9
57.5°	251.8	263.6	277.9	283.5	300.4
60°	221.4	234.6	247.5	246.9	256.0
62.5°	193.8	205.0	217.9	209.0	209.5
65°	149.0	161.4	176.0	153.8	139.8
67.5°	120.4	123.0	138.1	107.2	90.6
70°	106.9	106.9	111.1	83.0	69.0
72.5°	94.1	94.1	90.3	67.5	52.9
75°	74.9	74.9	68.2	46.8	32.0
77.5°	57.8	57.1	52.2	34.9	23.2
80°	46.3	46.3	42.1	27.6	18.5
82.5°	36.2	36.2	32.7	21.5	13.8
85°	21.0	21.0	19.4	12.5	7.6
87.5°	7.4	7.4	6.7	4.0	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)