

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

Brand: CORELITE

Report Number: P845665

Luminaire Tested: SQ2R-WBM-075D-935-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P559733)
Test Lab: INNOVATION CENTER
Issue Date: 6/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2R-WBM-075D-935-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, WIDE 80-DEGREE OPTIC
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

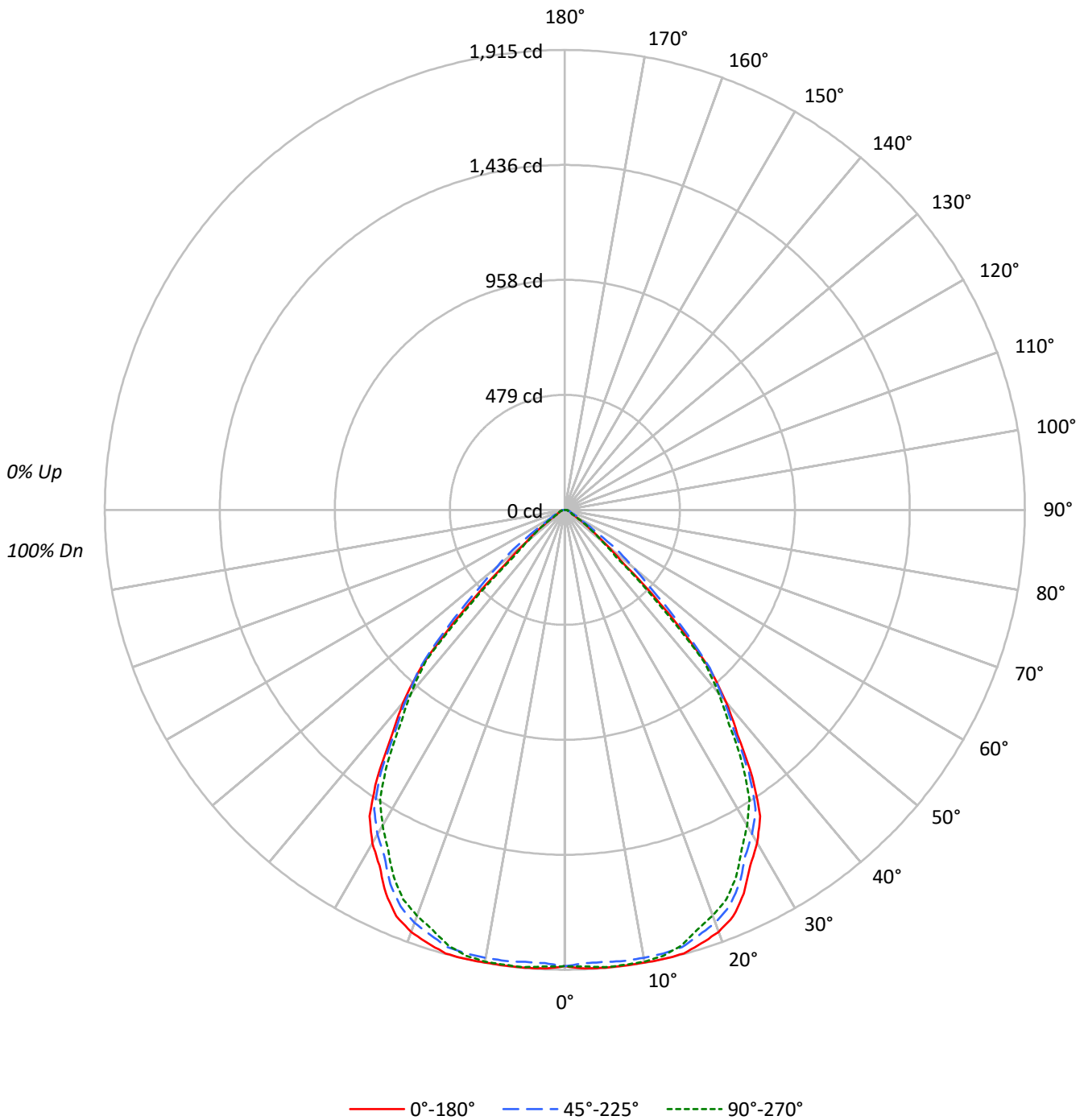
Lumens per Lamp: N/A
Luminaire Lumens: 2991.1 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75				75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	69	65	73	68	64	71	67	63	62				62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30684	30684	30684
5°	31023	30624	30977
10°	31382	31045	31314
15°	31972	31515	31378
20°	32137	31435	30895
25°	31401	30624	30040
30°	29860	29073	28284
35°	26836	26325	25385
40°	22055	21595	20961
45°	13956	15668	12586
50°	5416	9218	4968
55°	2612	4186	2649
60°	1234	2070	1146
65°	1093	1200	1043
70°	1095	1095	1029
75°	1023	1104	936
80°	1013	1013	883
85°	1019	1019	760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	6.1
10°-20°	533.9	17.9
20°-30°	790.6	26.4
30°-40°	819.0	27.4
40°-50°	492.3	16.5
50°-60°	117.7	3.9
60°-70°	32.1	1.1
70°-80°	17.9	0.6
80°-90°	5.7	0.2
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°	1506.5	50.4
0°-40°	2325.5	77.7
0°-60°	2935.4	98.1
0°-90°	2991.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1914	1907	1890	1914	1911	183
15°	1913	1925	1885	1886	1877	539
25°	1763	1779	1719	1697	1686	806
35°	1362	1359	1336	1310	1288	837
45°	611	686	686	650	551	467
55°	93	106	149	100	94	95
65°	29	30	31	29	27	29
75°	16	18	18	16	15	18
85°	6	6	6	6	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.4	1900.4	1900.4	1900.4	1900.4
2.5°	1911.3	1904.9	1889.5	1906.8	1902.6
5°	1914.1	1907.4	1889.5	1914.1	1911.3
7.5°	1914.1	1909.8	1894.7	1915.0	1911.1
10°	1914.1	1914.1	1893.6	1913.9	1910.0
12.5°	1915.2	1920.5	1892.5	1907.4	1901.2
15°	1912.7	1924.7	1885.4	1886.5	1877.2
17.5°	1892.2	1910.9	1856.8	1845.8	1833.0
20°	1870.4	1889.1	1829.5	1808.7	1798.1
22.5°	1832.2	1852.0	1788.0	1768.4	1756.6
25°	1762.6	1778.6	1719.0	1696.9	1686.2
27.5°	1670.4	1677.6	1625.9	1605.2	1593.5
30°	1601.6	1600.3	1559.4	1533.0	1517.1
32.5°	1513.2	1515.1	1477.5	1452.1	1430.8
35°	1361.5	1358.8	1335.6	1310.5	1287.9
37.5°	1180.6	1182.5	1157.7	1131.1	1122.2
40°	1046.4	1050.3	1024.6	995.9	994.5
42.5°	882.7	912.3	893.6	863.7	858.1
45°	611.2	686.0	686.2	649.9	551.2
47.5°	340.0	433.3	489.2	385.8	288.4
50°	215.6	276.9	367.0	231.1	197.8
52.5°	153.3	183.8	272.0	164.9	144.3
55°	92.8	106.1	148.7	99.5	94.1
57.5°	56.8	68.5	87.0	67.4	56.2
60°	38.2	48.8	64.1	43.5	35.5
62.5°	33.8	37.0	49.9	34.9	32.2
65°	28.6	30.0	31.4	28.6	27.3
67.5°	25.4	26.7	26.5	25.4	24.0
70°	23.2	24.6	23.2	23.2	21.8
72.5°	21.0	21.3	21.0	19.9	19.6
75°	16.4	17.7	17.7	16.4	15.0
77.5°	13.1	14.2	13.1	13.1	11.7
80°	10.9	10.9	10.9	10.9	9.5
82.5°	8.7	8.7	8.7	8.7	7.4
85°	5.5	5.5	5.5	5.5	4.1
87.5°	2.2	2.2	2.2	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.01	10.19	9.38	10.50	10.82	8.61	9.79	8.98	10.10	10.42
	3H	9.55	10.59	9.93	10.92	11.29	9.15	10.19	9.54	10.52	10.89
	4H	9.82	10.78	10.22	11.13	11.52	9.41	10.37	9.81	10.72	11.11
	6H	10.05	10.92	10.46	11.30	11.69	9.61	10.49	10.03	10.86	11.26
	8H	10.13	10.96	10.56	11.35	11.76	9.68	10.51	10.11	10.90	11.31
	12H	10.19	10.98	10.62	11.36	11.79	9.71	10.50	10.14	10.88	11.32
4H	2H	9.07	10.03	9.47	10.38	10.77	8.70	9.66	9.11	10.02	10.40
	3H	9.83	10.60	10.24	11.01	11.41	9.47	10.24	9.88	10.65	11.05
	4H	10.22	10.91	10.66	11.33	11.78	9.84	10.53	10.28	10.95	11.40
	6H	10.58	11.17	11.05	11.62	12.09	10.18	10.77	10.65	11.22	11.69
	8H	10.71	11.26	11.18	11.71	12.18	10.29	10.85	10.77	11.30	11.77
	12H	10.81	11.30	11.30	11.78	12.26	10.37	10.85	10.86	11.34	11.81
8H	4H	10.32	10.87	10.79	11.32	11.79	9.97	10.52	10.44	10.97	11.44
	6H	10.78	11.23	11.29	11.73	12.21	10.43	10.88	10.93	11.38	11.86
	8H	10.98	11.39	11.51	11.91	12.40	10.62	11.02	11.14	11.54	12.03
	12H	11.17	11.53	11.69	12.03	12.60	10.77	11.13	11.29	11.63	12.20
12H	4H	10.30	10.79	10.79	11.27	11.75	9.96	10.44	10.45	10.93	11.40
	6H	10.79	11.19	11.32	11.71	12.21	10.45	10.85	10.97	11.37	11.86
	8H	11.04	11.40	11.56	11.90	12.47	10.69	11.05	11.21	11.55	12.12