

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: P845670

Luminaire Tested: SQ2R-WBM-125D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845670
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-125D-930-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, WIDE 80-DEGREE OPTIC
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

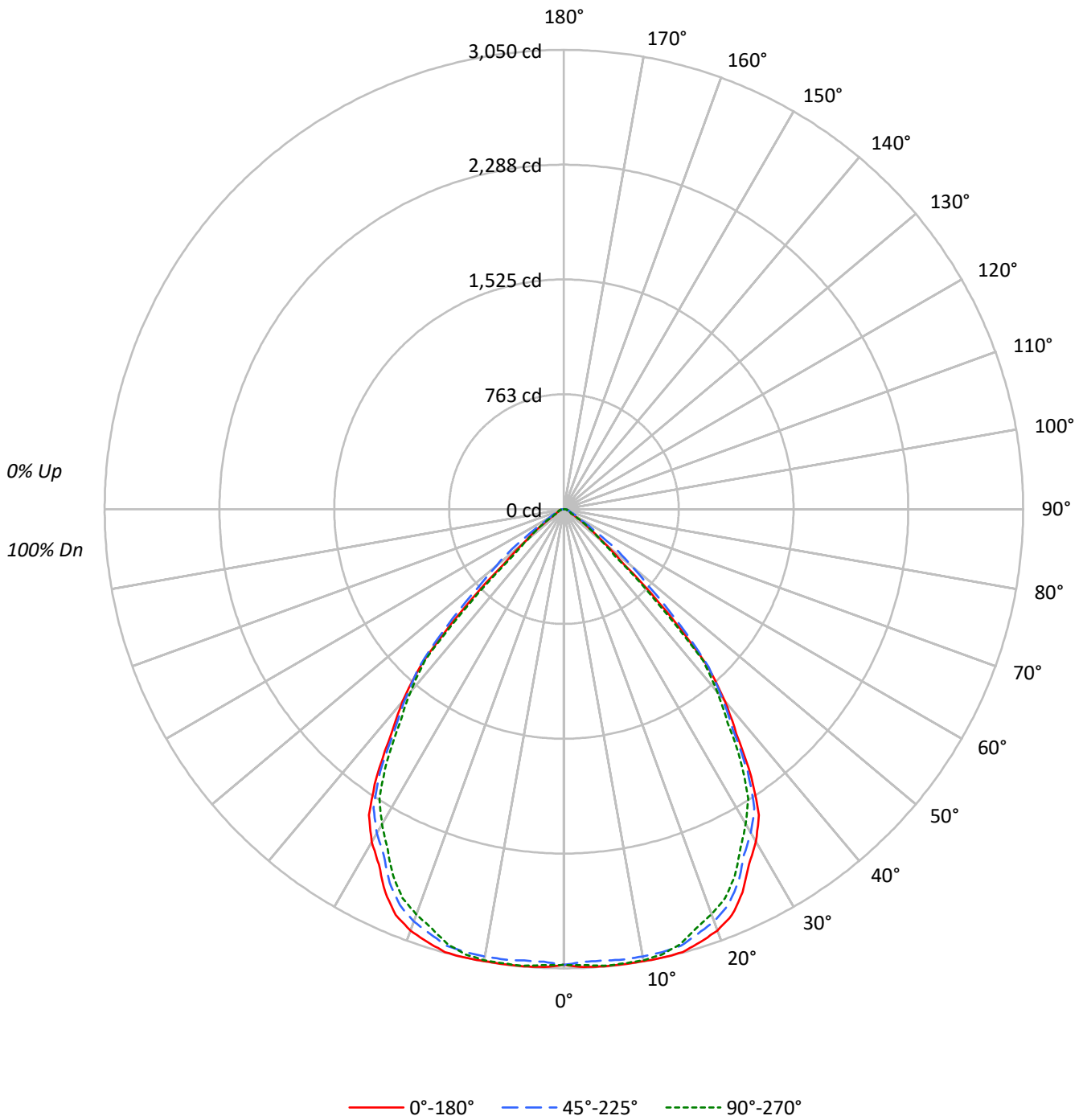
Lumens per Lamp: N/A
Luminaire Lumens: 4763.9 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.6
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48870	48870	48870
5°	49409	48775	49337
10°	49980	49445	49873
15°	50920	50195	49976
20°	51185	50065	49206
25°	50012	48774	47844
30°	47558	46303	45047
35°	42742	41928	40430
40°	35127	34393	33386
45°	22226	24955	20043
50°	8623	14682	7915
55°	4160	6666	4220
60°	1963	3297	1824
65°	1742	1910	1662
70°	1742	1742	1643
75°	1628	1759	1491
80°	1618	1618	1413
85°	1612	1612	1204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 24955 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.9	6.1
10°-20°	850.3	17.8
20°-30°	1259.2	26.4
30°-40°	1304.4	27.4
40°-50°	784.0	16.5
50°-60°	187.4	3.9
60°-70°	51.1	1.1
70°-80°	28.5	0.6
80°-90°	9.1	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°	2399.4	50.4
0°-40°	3703.8	77.7
0°-60°	4675.2	98.1
0°-90°	4763.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4763.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3027	3027	3027	3027	3027	
5°	3048	3038	3009	3048	3044	291
15°	3046	3065	3003	3005	2990	858
25°	2807	2833	2738	2703	2686	1284
35°	2168	2164	2127	2087	2051	1334
45°	973	1092	1093	1035	878	744
55°	148	169	237	158	150	151
65°	46	48	50	46	44	47
75°	26	28	28	26	24	28
85°	9	9	9	9	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3026.8	3026.8	3026.8	3026.8	3026.8
2.5°	3044.1	3033.9	3009.4	3037.0	3030.2
5°	3048.5	3037.8	3009.4	3048.5	3044.1
7.5°	3048.5	3041.8	3017.6	3050.0	3043.7
10°	3048.5	3048.5	3015.9	3048.3	3042.0
12.5°	3050.2	3058.7	3014.2	3037.8	3028.1
15°	3046.3	3065.4	3002.9	3004.6	2989.8
17.5°	3013.7	3043.5	2957.2	2939.8	2919.4
20°	2979.0	3008.7	2913.8	2880.7	2863.8
22.5°	2918.1	2949.6	2847.7	2816.4	2797.7
25°	2807.3	2832.7	2737.8	2702.6	2685.6
27.5°	2660.4	2671.9	2589.6	2556.6	2537.9
30°	2550.9	2548.7	2483.6	2441.6	2416.2
32.5°	2410.1	2413.2	2353.2	2312.8	2278.9
35°	2168.5	2164.1	2127.2	2087.2	2051.2
37.5°	1880.4	1883.4	1843.9	1801.5	1787.4
40°	1666.6	1672.9	1631.8	1586.2	1584.0
42.5°	1405.8	1453.0	1423.2	1375.6	1366.7
45°	973.4	1092.5	1092.9	1035.1	877.8
47.5°	541.5	690.1	779.2	614.5	459.3
50°	343.3	441.1	584.5	368.1	315.1
52.5°	244.2	292.7	433.3	262.7	229.9
55°	147.8	169.0	236.8	158.4	149.9
57.5°	90.4	109.1	138.6	107.3	89.5
60°	60.8	77.8	102.1	69.3	56.5
62.5°	53.9	58.9	79.5	55.6	51.3
65°	45.6	47.8	50.0	45.6	43.5
67.5°	40.4	42.6	42.2	40.4	38.2
70°	36.9	39.1	36.9	36.9	34.8
72.5°	33.5	33.9	33.5	31.7	31.3
75°	26.1	28.2	28.2	26.1	23.9
77.5°	20.9	22.6	20.9	20.9	18.7
80°	17.4	17.4	17.4	17.4	15.2
82.5°	13.9	13.9	13.9	13.9	11.7
85°	8.7	8.7	8.7	8.7	6.5
87.5°	3.5	3.5	3.5	1.7	1.7
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	10.63	11.81	10.99	12.12	12.44	10.23	11.41	10.59	11.72	12.03
	3H	11.17	12.21	11.55	12.54	12.90	10.77	11.81	11.15	12.14	12.51
	4H	11.44	12.40	11.84	12.75	13.13	11.02	11.98	11.43	12.34	12.72
	6H	11.66	12.54	12.08	12.91	13.31	11.23	12.11	11.65	12.48	12.88
	8H	11.75	12.57	12.18	12.97	13.37	11.30	12.12	11.73	12.52	12.92
	12H	11.80	12.60	12.24	12.98	13.41	11.33	12.12	11.76	12.50	12.93
4H	2H	10.69	11.65	11.09	12.00	12.39	10.32	11.28	10.73	11.63	12.02
	3H	11.44	12.22	11.86	12.63	13.03	11.08	11.86	11.50	12.27	12.67
	4H	11.84	12.53	12.27	12.95	13.40	11.46	12.15	11.90	12.57	13.02
	6H	12.20	12.79	12.66	13.24	13.71	11.80	12.39	12.27	12.84	13.31
	8H	12.32	12.88	12.80	13.33	13.80	11.91	12.47	12.39	12.91	13.39
	12H	12.43	12.91	12.92	13.40	13.88	11.99	12.47	12.47	12.96	13.43
8H	4H	11.93	12.49	12.41	12.94	13.41	11.59	12.14	12.06	12.59	13.06
	6H	12.40	12.85	12.91	13.35	13.83	12.05	12.49	12.55	12.99	13.48
	8H	12.60	13.00	13.13	13.52	14.02	12.23	12.64	12.76	13.16	13.65
	12H	12.79	13.14	13.31	13.64	14.22	12.39	12.75	12.91	13.24	13.82
12H	4H	11.92	12.40	12.41	12.89	13.36	11.58	12.06	12.06	12.55	13.02
	6H	12.41	12.81	12.93	13.33	13.82	12.06	12.47	12.59	12.99	13.48
	8H	12.66	13.02	13.18	13.52	14.09	12.31	12.67	12.83	13.16	13.74