

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: P845664

Luminaire Tested: SQ2R-WBM-075D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845664
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-930-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, WIDE 80-DEGREE OPTIC
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

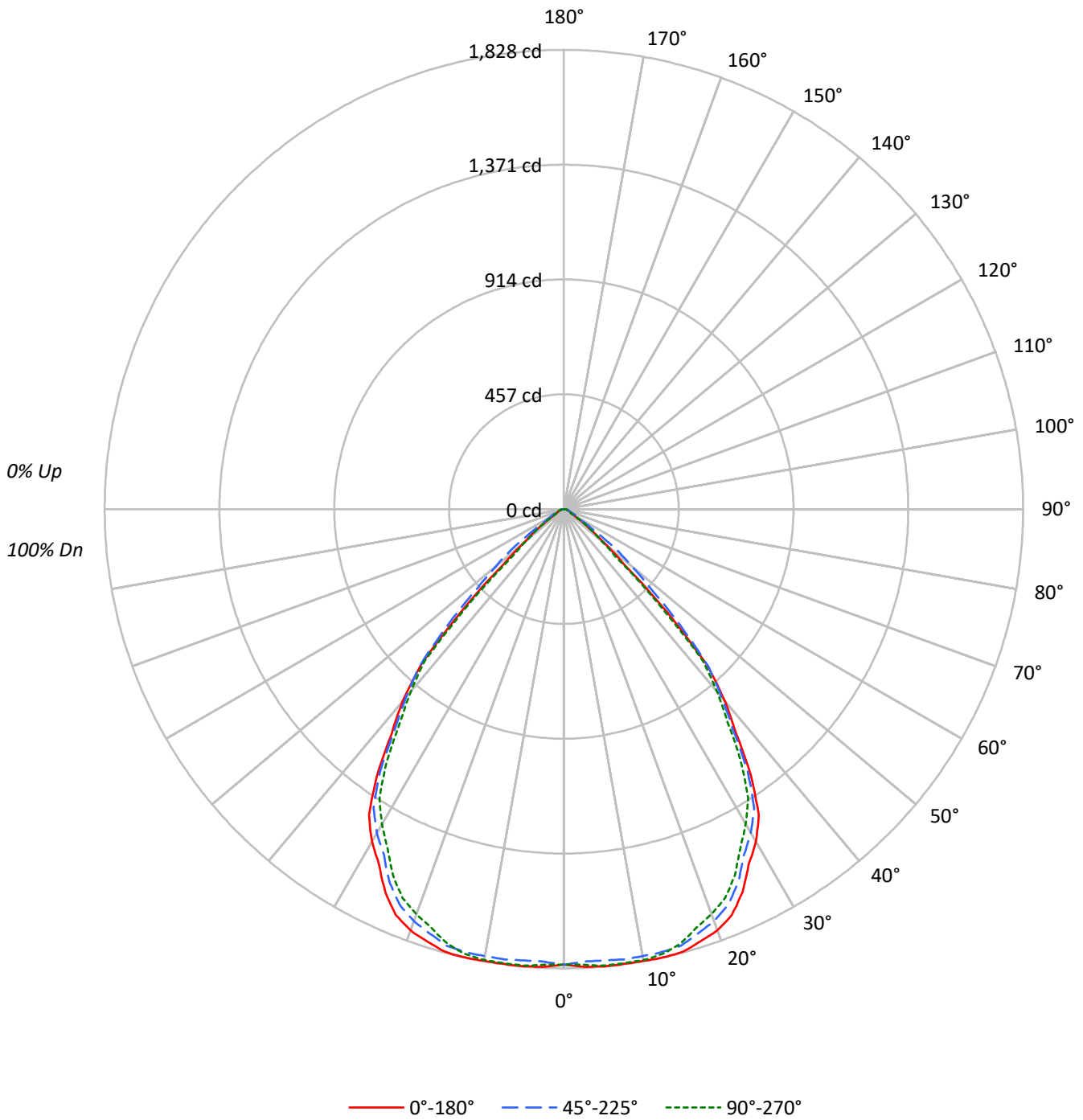
Lumens per Lamp: N/A
Luminaire Lumens: 2854.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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				
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	65	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°	29279	29279	29279
5°	29601	29222	29559
10°	29944	29624	29880
15°	30507	30073	29942
20°	30667	29995	29481
25°	29963	29222	28664
30°	28493	27740	26988
35°	25608	25121	24222
40°	21045	20605	20002
45°	13317	14951	12008
50°	5167	8796	4742
55°	2491	3994	2528
60°	1179	1976	1091
65°	1043	1142	993
70°	1043	1043	982
75°	973	1054	892
80°	967	967	846
85°	963	963	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	6.1
10°-20°	509.5	17.9
20°-30°	754.4	26.4
30°-40°	781.5	27.4
40°-50°	469.7	16.5
50°-60°	112.3	3.9
60°-70°	30.6	1.1
70°-80°	17.0	0.6
80°-90°	5.4	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°	1437.5	50.4
0°-40°	2219.0	77.7
0°-60°	2801.0	98.1
0°-90°	2854.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2854.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1826	1820	1803	1826	1824	174
15°	1825	1837	1799	1800	1791	514
25°	1682	1697	1640	1619	1609	769
35°	1299	1297	1274	1250	1229	799
45°	583	654	655	620	526	446
55°	88	101	142	95	90	90
65°	27	29	30	27	26	28
75°	16	17	17	16	14	17
85°	5	5	5	5	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.4	1813.4	1813.4	1813.4	1813.4
2.5°	1823.8	1817.7	1803.0	1819.5	1815.5
5°	1826.4	1820.0	1803.0	1826.4	1823.8
7.5°	1826.4	1822.4	1807.9	1827.3	1823.5
10°	1826.4	1826.4	1806.9	1826.3	1822.5
12.5°	1827.5	1832.5	1805.8	1820.0	1814.2
15°	1825.1	1836.6	1799.1	1800.1	1791.3
17.5°	1805.6	1823.4	1771.7	1761.3	1749.1
20°	1784.8	1802.6	1745.7	1725.9	1715.8
22.5°	1748.3	1767.2	1706.1	1687.4	1676.2
25°	1681.9	1697.1	1640.3	1619.2	1609.0
27.5°	1593.9	1600.8	1551.5	1531.7	1520.5
30°	1528.3	1527.0	1487.9	1462.8	1447.6
32.5°	1443.9	1445.8	1409.8	1385.6	1365.3
35°	1299.2	1296.6	1274.5	1250.5	1228.9
37.5°	1126.6	1128.4	1104.7	1079.3	1070.9
40°	998.5	1002.2	977.6	950.3	949.0
42.5°	842.3	870.5	852.7	824.2	818.8
45°	583.2	654.5	654.8	620.2	525.9
47.5°	324.4	413.4	466.8	368.1	275.2
50°	205.7	264.3	350.2	220.5	188.8
52.5°	146.3	175.4	259.6	157.4	137.7
55°	88.5	101.3	141.9	94.9	89.8
57.5°	54.2	65.3	83.1	64.3	53.6
60°	36.5	46.6	61.2	41.5	33.8
62.5°	32.3	35.3	47.6	33.3	30.7
65°	27.3	28.6	29.9	27.3	26.0
67.5°	24.2	25.5	25.3	24.2	22.9
70°	22.1	23.4	22.1	22.1	20.8
72.5°	20.0	20.3	20.0	19.0	18.7
75°	15.6	16.9	16.9	15.6	14.3
77.5°	12.5	13.5	12.5	12.5	11.2
80°	10.4	10.4	10.4	10.4	9.1
82.5°	8.3	8.3	8.3	8.3	7.0
85°	5.2	5.2	5.2	5.2	3.9
87.5°	2.1	2.1	2.1	1.0	1.0
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	8.85	10.03	9.22	10.34	10.66	8.45	9.63	8.81	9.94	10.25
	3H	9.39	10.43	9.77	10.76	11.12	8.99	10.02	9.37	10.36	10.72
	4H	9.66	10.62	10.06	10.97	11.35	9.24	10.20	9.65	10.55	10.94
	6H	9.88	10.76	10.30	11.13	11.53	9.45	10.32	9.86	10.70	11.09
	8H	9.96	10.79	10.40	11.18	11.59	9.51	10.34	9.95	10.73	11.14
	12H	10.02	10.81	10.46	11.20	11.63	9.54	10.34	9.98	10.72	11.15
4H	2H	8.91	9.87	9.31	10.22	10.61	8.54	9.50	8.94	9.85	10.24
	3H	9.66	10.44	10.08	10.85	11.25	9.30	10.08	9.71	10.48	10.89
	4H	10.06	10.75	10.49	11.17	11.61	9.67	10.36	10.11	10.79	11.23
	6H	10.41	11.01	10.88	11.45	11.92	10.02	10.61	10.48	11.06	11.53
	8H	10.54	11.09	11.01	11.54	12.02	10.13	10.68	10.60	11.13	11.60
	12H	10.65	11.13	11.13	11.62	12.09	10.20	10.68	10.69	11.17	11.65
8H	4H	10.15	10.70	10.63	11.15	11.63	9.80	10.35	10.27	10.80	11.28
	6H	10.62	11.06	11.12	11.56	12.05	10.26	10.71	10.77	11.21	11.69
	8H	10.82	11.22	11.34	11.74	12.23	10.45	10.85	10.98	11.37	11.87
	12H	11.00	11.36	11.52	11.86	12.43	10.60	10.96	11.12	11.46	12.03
12H	4H	10.14	10.62	10.63	11.11	11.58	9.79	10.27	10.28	10.76	11.24
	6H	10.62	11.03	11.15	11.55	12.04	10.28	10.68	10.81	11.20	11.70
	8H	10.88	11.23	11.40	11.73	12.31	10.52	10.88	11.04	11.38	11.95