

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: P854369

Luminaire Tested: SQ2-WBM-0U-075D-940-UNV-STD-W-4

Issue Date: 7/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P854369
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-WBM-0U-075D-940-UNV-STD-W-4
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: -

Summary

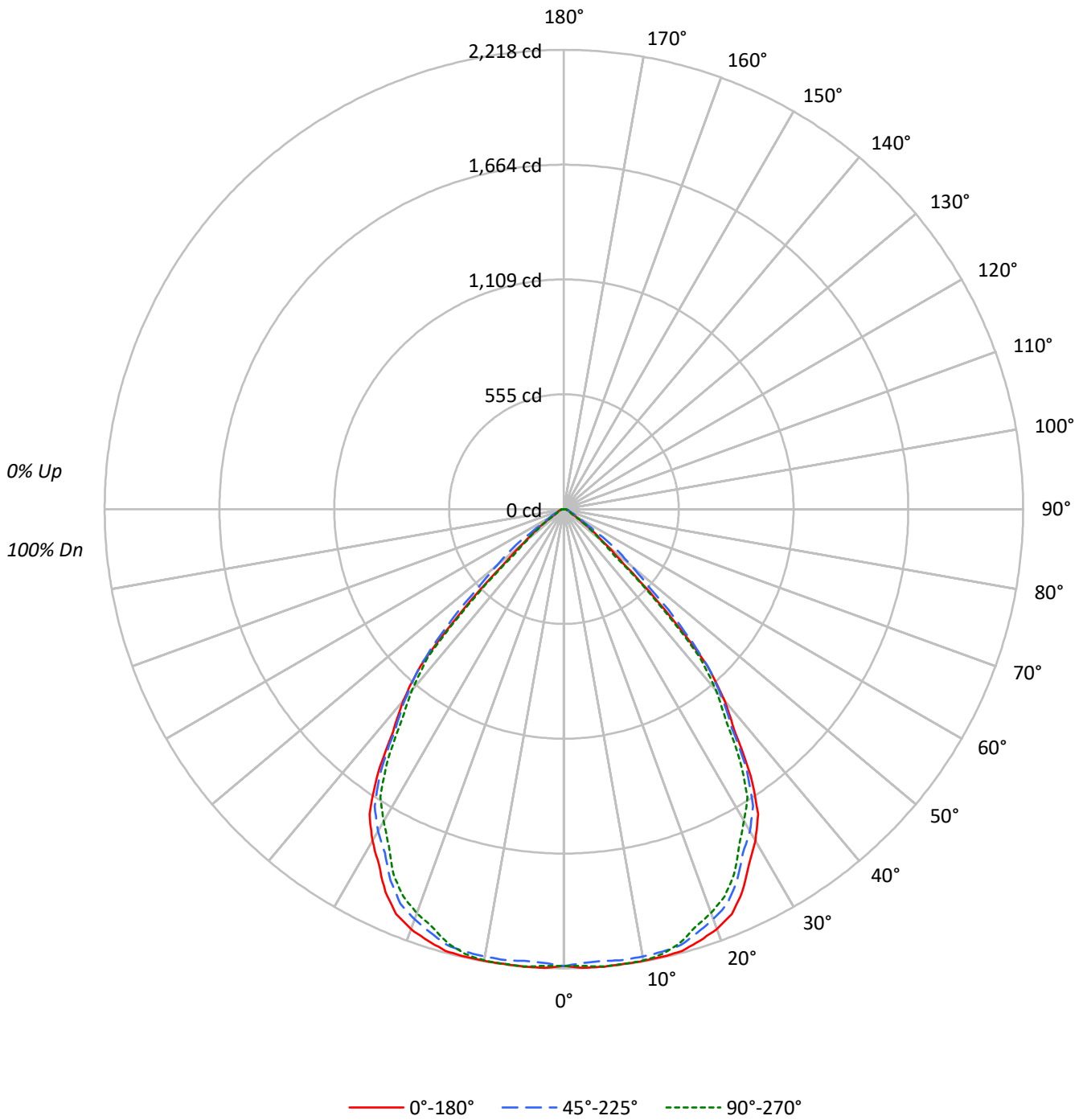
Lumens per Lamp: N/A
Luminaire Lumens: 3451.5 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
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	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	79	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°	35626	35626	35626
5°	35950	35504	35934
10°	36315	35967	36297
15°	36918	36441	36264
20°	37094	36221	35677
25°	36332	35258	34673
30°	34472	33486	32421
35°	31003	30356	29250
40°	25417	25037	24078
45°	15892	18091	14926
50°	6217	10547	5687
55°	3068	4912	3037
60°	1434	2357	1298
65°	1291	1375	1211
70°	1246	1298	1199
75°	1254	1254	1123
80°	1181	1181	1079
85°	1167	982	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18091 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	6.1
10°-20°	616.9	17.9
20°-30°	912.0	26.4
30°-40°	943.7	27.3
40°-50°	567.7	16.4
50°-60°	135.9	3.9
60°-70°	37.1	1.1
70°-80°	20.8	0.6
80°-90°	6.5	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°	1739.9	50.4
0°-40°	2683.6	77.8
0°-60°	3387.1	98.1
0°-90°	3451.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2206	2206	2206	2206	2206	
5°	2218	2211	2191	2220	2217	212
15°	2209	2225	2180	2180	2170	622
25°	2039	2056	1979	1958	1946	932
35°	1573	1571	1540	1505	1484	966
45°	696	790	792	753	654	538
55°	109	122	174	116	108	109
65°	34	35	36	34	32	34
75°	20	20	20	19	18	21
85°	6	6	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2206.5	2206.5	2206.5	2206.5	2206.5
2.5°	2217.5	2211.7	2193.8	2212.3	2208.2
5°	2218.1	2210.9	2190.6	2220.2	2217.1
7.5°	2215.8	2212.7	2197.2	2219.5	2214.8
10°	2215.0	2216.0	2193.8	2217.0	2213.9
12.5°	2214.1	2222.6	2190.4	2208.5	2201.2
15°	2208.6	2225.2	2180.1	2179.8	2169.5
17.5°	2185.1	2204.8	2144.5	2127.9	2115.3
20°	2158.9	2178.6	2108.1	2081.6	2076.4
22.5°	2117.4	2138.7	2063.3	2034.1	2025.6
25°	2039.4	2055.9	1979.1	1957.7	1946.3
27.5°	1935.3	1944.4	1872.2	1847.8	1832.1
30°	1849.0	1853.1	1796.1	1763.8	1739.0
32.5°	1746.6	1750.7	1700.5	1670.0	1650.1
35°	1572.9	1570.8	1540.1	1504.7	1484.0
37.5°	1355.6	1358.5	1334.3	1306.3	1285.4
40°	1205.9	1207.9	1187.9	1147.6	1142.4
42.5°	1023.1	1054.1	1027.1	995.7	971.5
45°	696.0	790.1	792.3	753.0	653.7
47.5°	393.1	500.2	562.1	449.3	328.8
50°	247.5	319.9	419.9	266.7	226.4
52.5°	175.6	212.4	316.7	187.6	166.3
55°	109.0	122.4	174.5	116.2	107.9
57.5°	64.7	78.6	99.2	78.6	65.6
60°	44.4	55.8	73.0	51.6	40.2
62.5°	38.5	43.3	57.8	40.7	36.8
65°	33.8	34.9	36.0	33.8	31.7
67.5°	29.8	30.9	30.0	29.8	27.9
70°	26.4	27.5	27.5	26.4	25.4
72.5°	23.9	24.9	24.1	23.9	22.0
75°	20.1	20.1	20.1	19.0	18.0
77.5°	15.2	16.3	15.2	15.2	14.2
80°	12.7	13.7	12.7	12.7	11.6
82.5°	10.2	10.4	10.2	10.1	9.1
85°	6.3	6.3	5.3	5.3	5.3
87.5°	1.7	2.5	1.7	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	9.52	10.70	9.88	11.01	11.33	9.18	10.36	9.54	10.67	10.98
	3H	10.05	11.08	10.43	11.41	11.78	9.71	10.75	10.09	11.08	11.45
	4H	10.33	11.29	10.73	11.64	12.03	9.97	10.93	10.38	11.28	11.67
	6H	10.57	11.45	10.99	11.82	12.22	10.19	11.07	10.61	11.45	11.84
	8H	10.66	11.49	11.09	11.88	12.29	10.27	11.10	10.70	11.49	11.90
	12H	10.72	11.51	11.15	11.89	12.32	10.31	11.10	10.74	11.48	11.91
4H	2H	9.57	10.53	9.98	10.88	11.27	9.26	10.22	9.66	10.57	10.96
	3H	10.31	11.09	10.73	11.50	11.90	10.01	10.79	10.43	11.20	11.60
	4H	10.72	11.41	11.16	11.83	12.28	10.39	11.08	10.83	11.51	11.95
	6H	11.11	11.70	11.58	12.15	12.62	10.75	11.35	11.22	11.79	12.26
	8H	11.25	11.80	11.72	12.25	12.72	10.87	11.42	11.34	11.87	12.35
	12H	11.35	11.84	11.84	12.32	12.80	10.95	11.43	11.44	11.92	12.40
8H	4H	10.81	11.37	11.29	11.82	12.29	10.51	11.07	10.99	11.52	11.99
	6H	11.32	11.77	11.83	12.27	12.75	10.99	11.44	11.49	11.94	12.42
	8H	11.53	11.94	12.06	12.46	12.95	11.18	11.58	11.70	12.10	12.59
	12H	11.72	12.08	12.24	12.57	13.15	11.32	11.68	11.84	12.18	12.75
12H	4H	10.80	11.28	11.29	11.77	12.25	10.51	10.99	11.00	11.48	11.95
	6H	11.33	11.73	11.85	12.25	12.74	11.00	11.41	11.53	11.93	12.42
	8H	11.59	11.95	12.11	12.45	13.02	11.24	11.60	11.76	12.10	12.67