

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
(formerly Eaton)

Brand: CORELITE

Report Number: P519484

Luminaire Tested: **SQ4-WB-125U-075D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519484
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

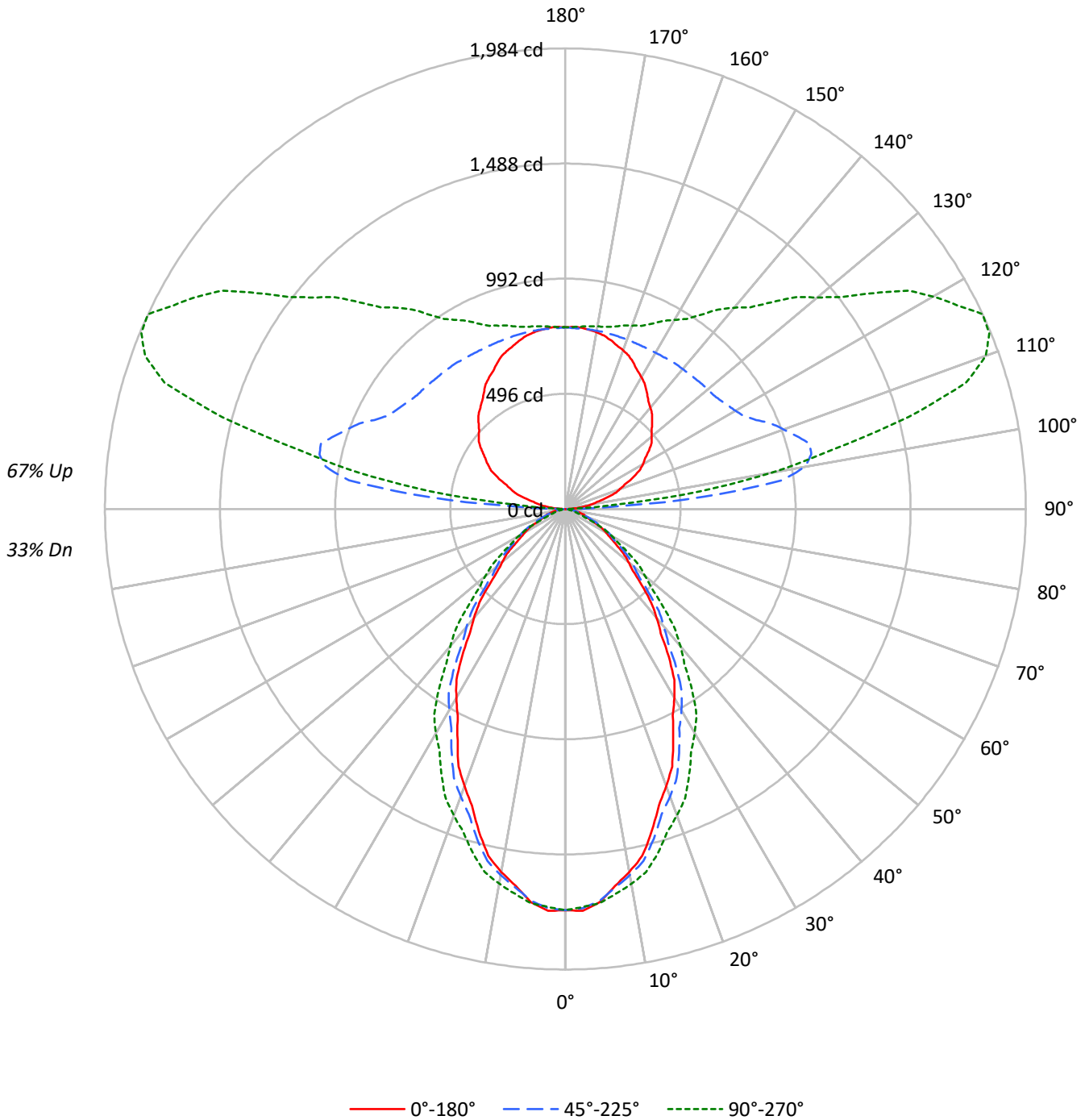
Lumens per Lamp: N/A
Luminaire Lumens: 7569.9 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30				
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26				
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21				
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18				
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14877	15012	15361
15°	13734	14052	14683
20°	12472	12942	13798
25°	11187	11797	12854
30°	10003	10657	11877
35°	8747	9379	10720
40°	7361	7947	9280
45°	6075	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3681	4115	4253
65°	2930	3460	2749
70°	2598	2700	1678
75°	2406	2189	1027
80°	2216	2014	887
85°	2011	1842	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.1
10°-20°	412.3	5.4
20°-30°	534.1	7.1
30°-40°	523.0	6.9
40°-50°	400.3	5.3
50°-60°	266.8	3.5
60°-70°	145.6	1.9
70°-80°	60.7	0.8
80°-90°	19.0	0.3
90°-100°	365.9	4.8
100°-110°	985.7	13.0
110°-120°	1034.5	13.7
120°-130°	839.4	11.1
130°-140°	658.3	8.7
140°-150°	505.4	6.7
150°-160°	363.4	4.8
160°-170°	222.0	2.9
170°-180°	74.9	1.0
0°-30°	1105.0	14.6
0°-40°	1628.0	21.5
0°-60°	2295.1	30.3
0°-90°	2520.3	33.3
90°-120°	2386.1	31.5
90°-150°	4389.3	58.0
90°-180°	5050.0	66.7
0°-180°	7569.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1700	1683	1694	1698	1704	158
15°	1438	1433	1471	1511	1537	402
25°	1099	1102	1159	1209	1263	505
35°	777	780	833	889	952	483
45°	466	474	506	544	594	363
55°	268	279	295	306	331	243
65°	134	145	158	138	126	140
75°	68	68	61	42	29	72
85°	19	19	17	11	7	21
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.3	1728.3	1728.3	1728.3	1728.3
2.5°	1732.6	1717.2	1721.1	1720.9	1716.2
5°	1700.3	1683.2	1694.2	1698.1	1704.1
7.5°	1637.2	1624.3	1644.3	1659.1	1671.2
10°	1588.0	1576.9	1602.4	1624.0	1639.6
12.5°	1531.0	1521.7	1553.3	1582.3	1602.6
15°	1437.9	1432.7	1471.2	1511.3	1537.2
17.5°	1338.2	1335.7	1379.9	1426.6	1459.9
20°	1270.3	1269.5	1318.1	1366.7	1405.3
22.5°	1201.7	1203.4	1254.3	1304.9	1348.8
25°	1098.9	1101.8	1158.8	1209.3	1262.7
27.5°	1003.8	1005.1	1064.0	1117.3	1174.3
30°	938.9	942.6	1000.3	1055.5	1114.8
32.5°	873.9	878.3	934.8	991.8	1052.3
35°	776.6	780.3	832.7	888.7	951.8
37.5°	676.2	681.2	727.7	780.7	842.7
40°	611.2	618.7	659.8	709.7	770.5
42.5°	548.8	558.0	596.1	643.4	698.3
45°	465.6	474.5	505.8	544.1	593.8
47.5°	394.1	404.3	428.3	461.3	503.7
50°	353.4	363.0	385.3	409.7	449.7
52.5°	317.6	327.2	347.0	365.9	400.0
55°	267.7	278.8	295.0	306.2	331.4
57.5°	226.8	237.4	250.3	255.3	270.6
60°	199.5	211.3	223.0	222.4	230.5
62.5°	174.6	184.7	196.3	188.2	188.7
65°	134.2	145.4	158.5	138.5	125.9
67.5°	108.4	110.8	124.4	96.6	81.6
70°	96.3	96.3	100.1	74.8	62.2
72.5°	84.8	84.8	81.3	60.8	47.6
75°	67.5	67.5	61.4	42.2	28.8
77.5°	52.0	51.4	47.0	31.5	20.9
80°	41.7	41.7	37.9	24.8	16.7
82.5°	32.6	32.6	29.4	19.4	12.4
85°	19.0	19.0	17.4	11.3	6.8
87.5°	7.1	7.9	8.5	6.2	5.6
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)