

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: P519580

Luminaire Tested: **SQ4-WB-150U-075D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519580
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

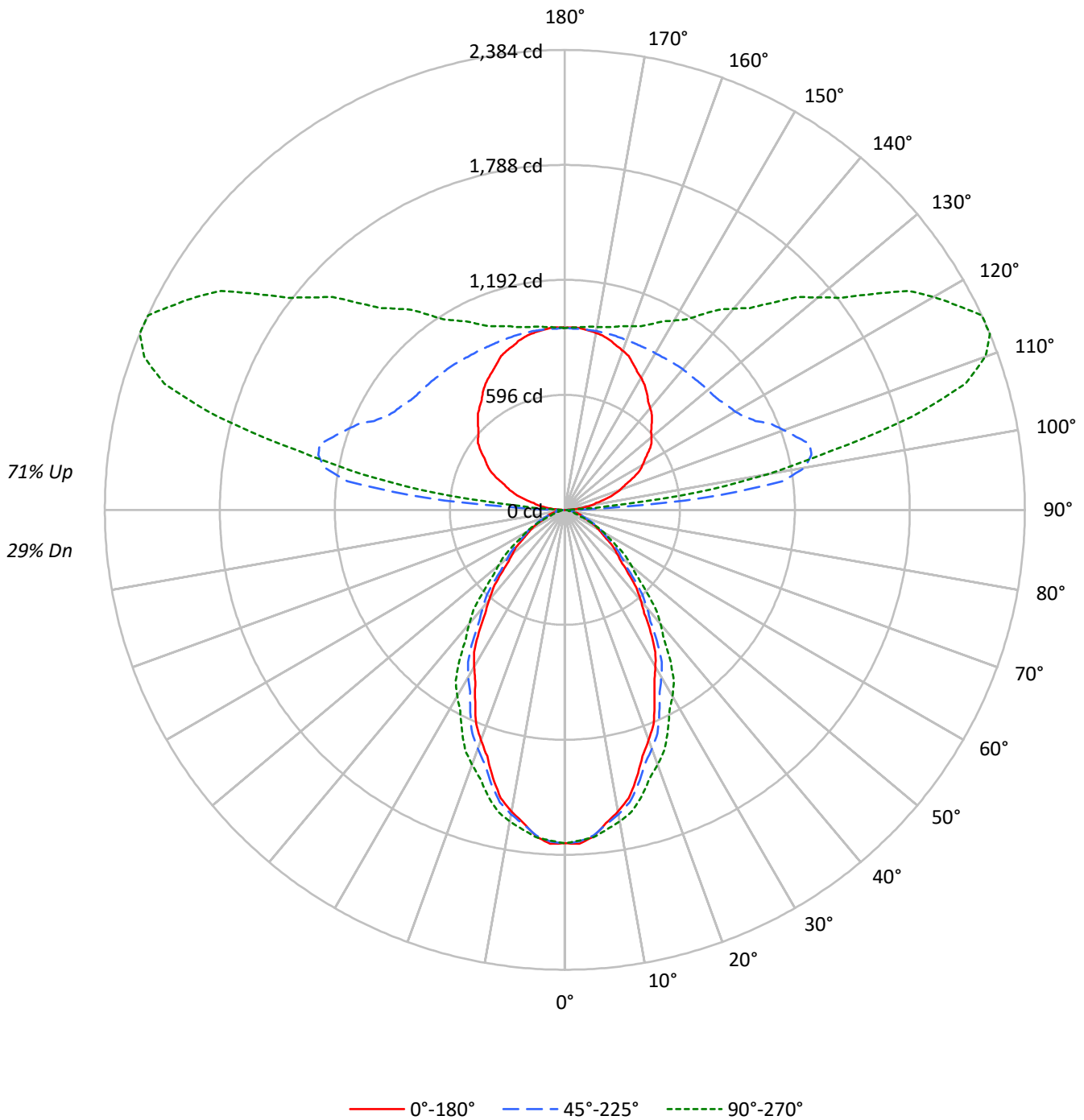
Lumens per Lamp: N/A
Luminaire Lumens: 8605.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29				
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26				
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23				
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20				
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18				
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16				
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15				
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13				
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12				
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11				
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10				

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	1.8
10°-20°	412.3	4.8
20°-30°	534.1	6.2
30°-40°	523.0	6.1
40°-50°	400.3	4.7
50°-60°	266.8	3.1
60°-70°	145.6	1.7
70°-80°	60.7	0.7
80°-90°	19.1	0.2
90°-100°	438.6	5.1
100°-110°	1185.8	13.8
110°-120°	1246.8	14.5
120°-130°	1012.7	11.8
130°-140°	794.4	9.2
140°-150°	609.7	7.1
150°-160°	438.5	5.1
160°-170°	267.9	3.1
170°-180°	90.3	1.0
0°-30°	1105.0	12.8
0°-40°	1628.0	18.9
0°-60°	2295.1	26.7
0°-90°	2520.5	29.3
90°-120°	2871.2	33.4
90°-150°	5287.9	61.5
90°-180°	6085.0	70.7
0°-180°	8605.0	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	13	14	13	5
95°	68	239	729	378	224	71
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	

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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	8.7	6.5	5.7
90°	2.0	6.0	13.2	14.2	13.2
92.5°	28.9	105.1	207.4	90.0	65.2
95°	68.1	238.9	729.4	377.5	224.5
97.5°	109.3	274.0	1136.9	940.9	691.0
100°	140.2	288.2	1263.7	1317.9	1065.6
102.5°	168.6	307.9	1308.4	1603.8	1415.1
105°	220.4	340.6	1315.5	1940.5	1861.0
107.5°	268.4	378.0	1258.0	2150.6	2177.0
110°	305.8	405.1	1206.8	2207.0	2319.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)