

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: P519191

Luminaire Tested: **SQ4-WB-075U-075D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519191
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16465.1 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

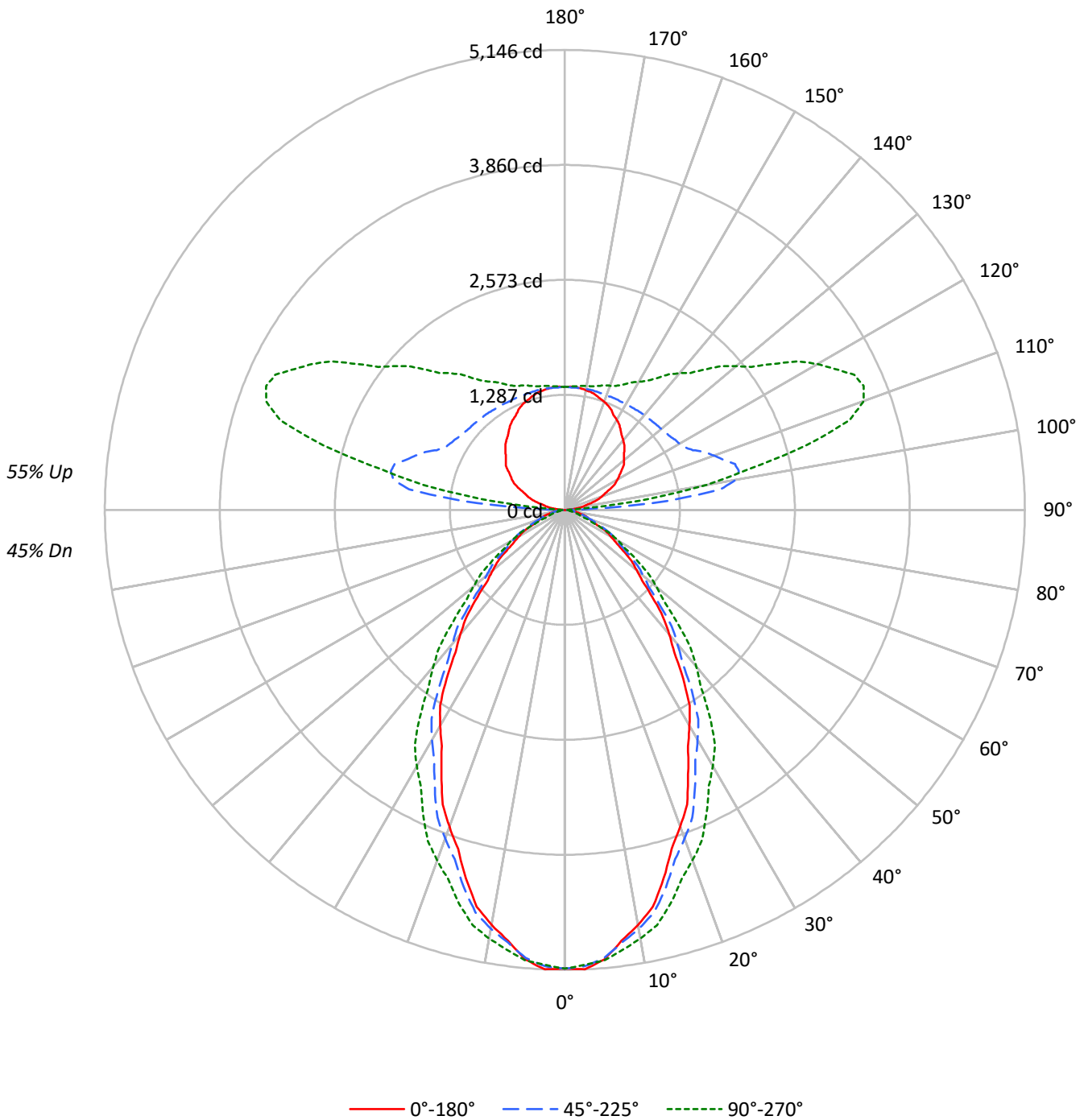
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15208
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9902	10551	11758
35°	8659	9285	10613
40°	7289	7867	9188
45°	6015	6534	7671
50°	5022	5474	6391
55°	4263	4698	5278
60°	3644	4073	4211
65°	2901	3426	2721
70°	2573	2673	1661
75°	2382	2167	1017
80°	2194	1994	878
85°	1987	1828	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.9	2.9
10°-20°	1224.7	7.4
20°-30°	1586.3	9.6
30°-40°	1553.4	9.4
40°-50°	1189.1	7.2
50°-60°	792.3	4.8
60°-70°	432.4	2.6
70°-80°	180.2	1.1
80°-90°	54.5	0.3
90°-100°	650.2	3.9
100°-110°	1789.0	10.9
110°-120°	1846.5	11.2
120°-130°	1479.4	9.0
130°-140°	1162.0	7.1
140°-150°	890.5	5.4
150°-160°	640.2	3.9
160°-170°	391.5	2.4
170°-180°	132.0	0.8
0°-30°	3281.9	19.9
0°-40°	4835.3	29.4
0°-60°	6816.7	41.4
0°-90°	7483.7	45.5
90°-120°	4285.7	26.0
90°-150°	7817.7	47.5
90°-180°	8981.0	54.5
0°-180°	16465.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5133	5133	5133	5133	5133	
5°	5050	4999	5032	5044	5061	470
15°	4271	4255	4370	4489	4566	1193
25°	3264	3273	3442	3592	3750	1501
35°	2306	2318	2473	2640	2827	1434
45°	1383	1409	1502	1616	1764	1079
55°	795	828	876	909	984	721
65°	399	432	471	411	374	414
75°	200	200	182	125	86	214
85°	56	56	52	34	20	61
90°	3	12	20	26	26	9
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5133.3	5133.3	5133.3	5133.3	5133.3
2.5°	5146.0	5100.1	5111.7	5111.4	5097.3
5°	5050.0	4999.3	5032.0	5043.6	5061.3
7.5°	4862.6	4824.3	4883.8	4927.8	4963.5
10°	4716.6	4683.6	4759.4	4823.6	4869.8
12.5°	4547.3	4519.5	4613.5	4699.5	4759.9
15°	4270.7	4255.2	4369.8	4488.6	4565.7
17.5°	3974.7	3967.2	4098.6	4237.3	4336.0
20°	3772.9	3770.7	3914.8	4059.3	4173.8
22.5°	3569.2	3574.1	3725.6	3875.8	4006.2
25°	3263.8	3272.6	3441.8	3591.8	3750.3
27.5°	2981.3	2985.3	3160.2	3318.6	3487.7
30°	2788.5	2799.6	2971.0	3134.9	3311.1
32.5°	2595.7	2608.5	2776.4	2945.8	3125.5
35°	2306.5	2317.5	2473.2	2639.6	2826.8
37.5°	2008.3	2023.3	2161.5	2318.8	2502.9
40°	1815.5	1837.5	1959.6	2107.9	2288.5
42.5°	1629.9	1657.2	1770.4	1911.1	2074.1
45°	1383.0	1409.4	1502.4	1616.1	1763.7
47.5°	1170.4	1200.8	1272.2	1370.1	1496.1
50°	1049.6	1078.3	1144.2	1216.8	1335.7
52.5°	943.3	972.0	1030.7	1086.6	1187.9
55°	795.1	828.2	876.2	909.4	984.3
57.5°	673.5	705.2	743.3	758.3	803.7
60°	592.4	627.6	662.2	660.5	684.7
62.5°	518.5	548.5	582.9	559.1	560.4
65°	398.7	431.7	470.8	411.3	373.9
67.5°	322.1	329.1	369.4	286.9	242.4
70°	286.1	286.1	297.3	222.1	184.7
72.5°	251.8	251.8	241.5	180.7	141.5
75°	200.5	200.5	182.4	125.2	85.6
77.5°	154.5	152.8	139.7	93.4	62.2
80°	123.9	123.9	112.6	73.8	49.6
82.5°	96.9	96.9	87.4	57.6	36.9
85°	56.3	56.3	51.8	33.5	20.3
87.5°	20.4	22.1	22.1	16.1	14.3
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)