

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: P563297

Luminaire Tested: **SQ4-PP3-050U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563297
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13779.5 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

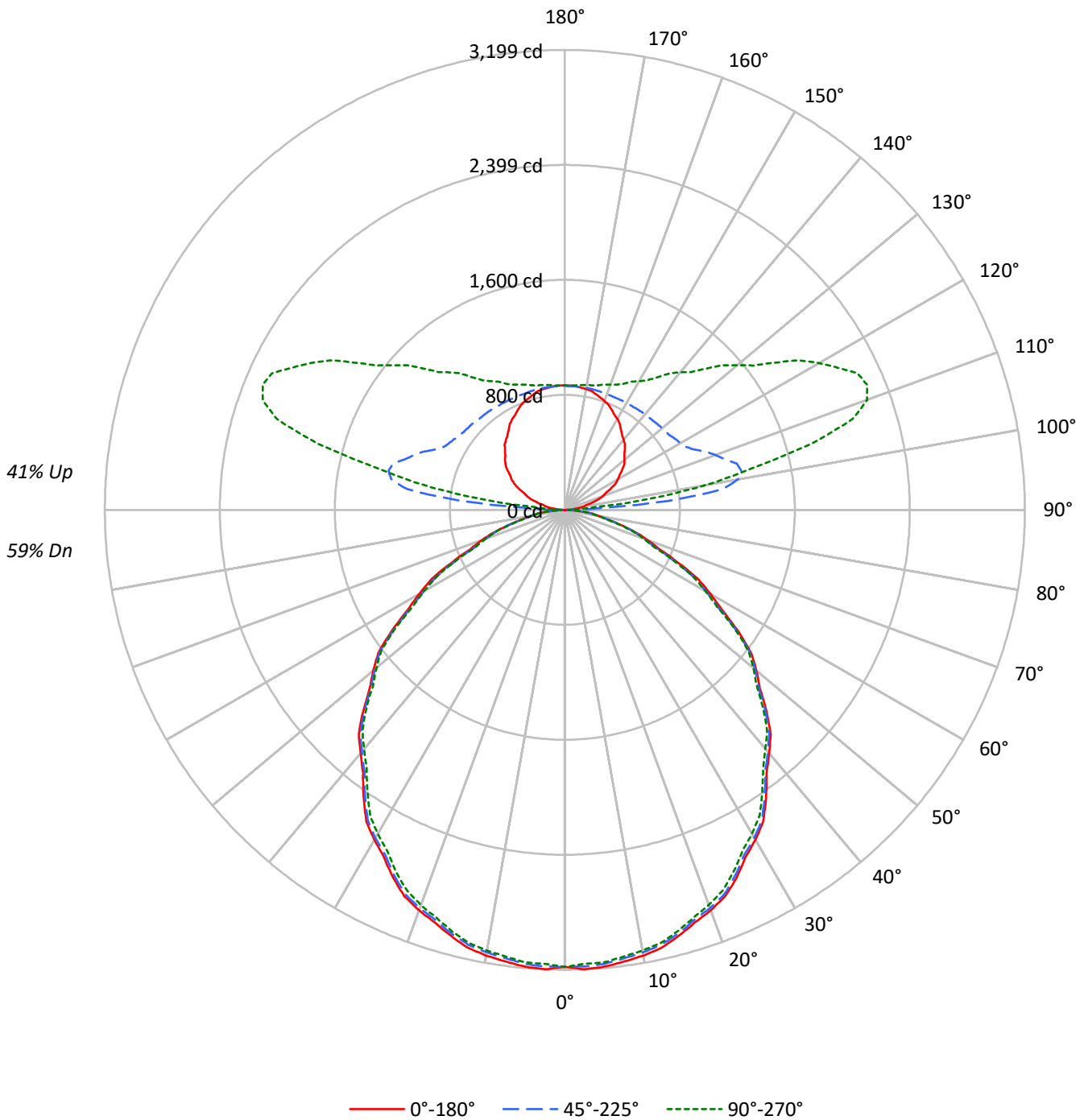
Input Watts (W): 105.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9776	9776	9776
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9712	9659
20°	9701	9646	9574
25°	9586	9520	9425
30°	9408	9359	9240
35°	9162	9099	8985
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6325	6062	6041
70°	5461	5236	5236
75°	4701	4634	4569
80°	4144	4194	4095
85°	3243	3539	3539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	2.2
10°-20°	858.2	6.2
20°-30°	1285.5	9.3
30°-40°	1507.9	10.9
40°-50°	1512.6	11.0
50°-60°	1290.3	9.4
60°-70°	841.5	6.1
70°-80°	422.2	3.1
80°-90°	120.2	0.9
90°-100°	414.7	3.0
100°-110°	1126.6	8.2
110°-120°	1158.3	8.4
120°-130°	926.1	6.7
130°-140°	727.6	5.3
140°-150°	557.9	4.0
150°-160°	401.2	2.9
160°-170°	245.4	1.8
170°-180°	82.7	0.6
0°-30°	2444.4	17.7
0°-40°	3952.2	28.7
0°-60°	6755.1	49.0
0°-90°	8139.0	59.1
90°-120°	2699.5	19.6
90°-150°	4911.2	35.6
90°-180°	5640.0	40.9
0°-180°	13779.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3179	3179	3179	3179	3179	
5°	3190	3160	3170	3159	3159	303
15°	3067	3037	3050	3039	3034	865
25°	2825	2792	2805	2780	2778	1299
35°	2440	2416	2424	2396	2393	1524
45°	1984	1970	1970	1950	1950	1527
55°	1471	1466	1451	1443	1440	1307
65°	869	853	833	828	830	867
75°	396	396	390	387	384	429
85°	92	100	100	100	100	108
90°	3	11	19	25	25	8
95°	61	227	722	314	211	65
105°	200	311	1239	1886	1775	212
115°	356	432	992	1973	2247	351
125°	489	557	897	1512	1783	436
135°	589	654	872	1231	1389	455
145°	680	729	861	1046	1125	427
155°	769	797	856	940	967	355
165°	833	844	858	894	897	235
175°	864	867	861	872	869	82
180°	864	864	864	864	864	

TEST NUMBER: P563297

CATALOG NUMBER: SQ4-PP3-050U-075D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3198.8	3172.6	3178.7	3173.9	3160.9
5°	3189.8	3159.9	3170.3	3159.2	3159.2
7.5°	3168.1	3135.4	3145.8	3134.7	3134.1
10°	3148.1	3115.4	3125.8	3114.6	3111.8
12.5°	3119.1	3086.4	3099.0	3085.6	3085.1
15°	3067.3	3037.3	3050.5	3039.3	3033.8
17.5°	3008.8	2976.1	2992.0	2976.4	2974.2
20°	2964.2	2931.5	2947.5	2925.2	2925.2
22.5°	2910.7	2878.0	2896.2	2867.2	2867.2
25°	2824.9	2792.2	2805.4	2780.3	2777.5
27.5°	2722.9	2690.8	2704.5	2676.1	2675.6
30°	2649.4	2619.4	2635.4	2604.7	2602.0
32.5°	2569.1	2541.4	2553.0	2522.3	2519.6
35°	2440.4	2415.9	2423.7	2395.8	2393.1
37.5°	2305.0	2280.0	2288.9	2264.9	2263.8
40°	2209.2	2192.9	2195.3	2175.7	2170.2
42.5°	2120.1	2101.5	2103.9	2084.4	2083.3
45°	1983.6	1969.9	1969.6	1950.1	1950.1
47.5°	1838.7	1828.3	1825.3	1809.1	1808.6
50°	1738.4	1730.2	1727.2	1713.3	1710.5
52.5°	1633.6	1629.8	1620.3	1608.6	1608.0
55°	1470.9	1465.5	1451.4	1443.0	1440.3
57.5°	1294.3	1283.4	1267.6	1255.4	1257.5
60°	1167.3	1156.4	1133.9	1128.3	1128.3
62.5°	1044.7	1031.6	1009.0	1001.3	1005.7
65°	869.2	852.9	833.0	827.5	830.2
67.5°	709.8	695.1	673.6	673.6	671.4
70°	607.3	599.2	582.3	582.3	582.3
72.5°	515.9	512.1	499.8	499.7	497.6
75°	395.6	395.6	390.0	387.2	384.5
77.5°	296.4	297.5	294.7	291.8	286.9
80°	234.0	239.5	236.8	234.0	231.2
82.5°	176.1	181.5	181.1	176.1	175.5
85°	91.9	100.1	100.3	100.3	100.3
87.5°	25.1	35.4	39.5	40.7	42.9
90°	2.8	10.9	19.4	25.0	25.0
92.5°	25.0	113.5	197.2	84.7	71.7
95°	61.1	226.8	722.2	314.3	211.1
97.5°	101.1	250.5	1107.2	861.4	605.0
100°	127.8	266.3	1225.0	1241.8	1002.8
102.5°	154.4	282.1	1256.1	1535.7	1325.0
105°	200.0	311.4	1238.9	1886.3	1775.0
107.5°	247.2	345.5	1167.2	2067.3	2098.3
110°	280.6	370.2	1113.9	2103.0	2236.1

TEST NUMBER: P563297

CATALOG NUMBER: SQ4-PP3-050U-075D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.4	394.7	1060.5	2073.4	2273.8
115°	355.5	431.6	991.6	1972.9	2247.2
117.5°	398.9	471.7	947.8	1830.3	2139.4
120°	427.8	498.4	927.8	1734.7	2041.6
122.5°	452.2	522.8	914.4	1638.9	1935.0
125°	488.9	556.8	897.2	1511.7	1783.3
127.5°	521.7	589.0	887.8	1415.3	1648.3
130°	541.7	606.8	883.3	1354.7	1563.9
132.5°	561.7	626.8	878.9	1303.1	1488.3
135°	588.9	654.1	872.2	1231.3	1388.9
137.5°	618.3	677.5	868.9	1168.0	1300.5
140°	636.1	693.1	866.6	1127.7	1247.2
142.5°	653.9	706.6	864.4	1096.1	1196.1
145°	680.5	729.4	861.1	1046.2	1125.0
147.5°	710.5	752.4	858.3	1006.9	1068.9
150°	730.5	765.8	858.3	984.4	1033.3
152.5°	746.1	777.1	856.1	964.2	1004.4
155°	769.4	796.6	855.5	939.5	966.6
157.5°	792.2	813.4	855.5	922.7	943.3
160°	805.5	824.6	855.5	911.5	927.8
162.5°	818.9	833.5	857.8	902.5	914.4
165°	833.3	844.2	858.3	894.5	897.2
167.5°	848.3	853.7	861.1	885.0	887.2
170°	852.8	858.2	861.1	880.5	880.5
172.5°	857.2	860.5	861.1	876.1	876.1
175°	863.9	866.6	861.1	872.1	869.4
177.5°	866.1	866.1	859.4	868.2	863.9
180°	863.9	863.9	863.9	863.9	863.9

(END OF REPORT)