

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: P561844

Luminaire Tested: **SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561844
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5172.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

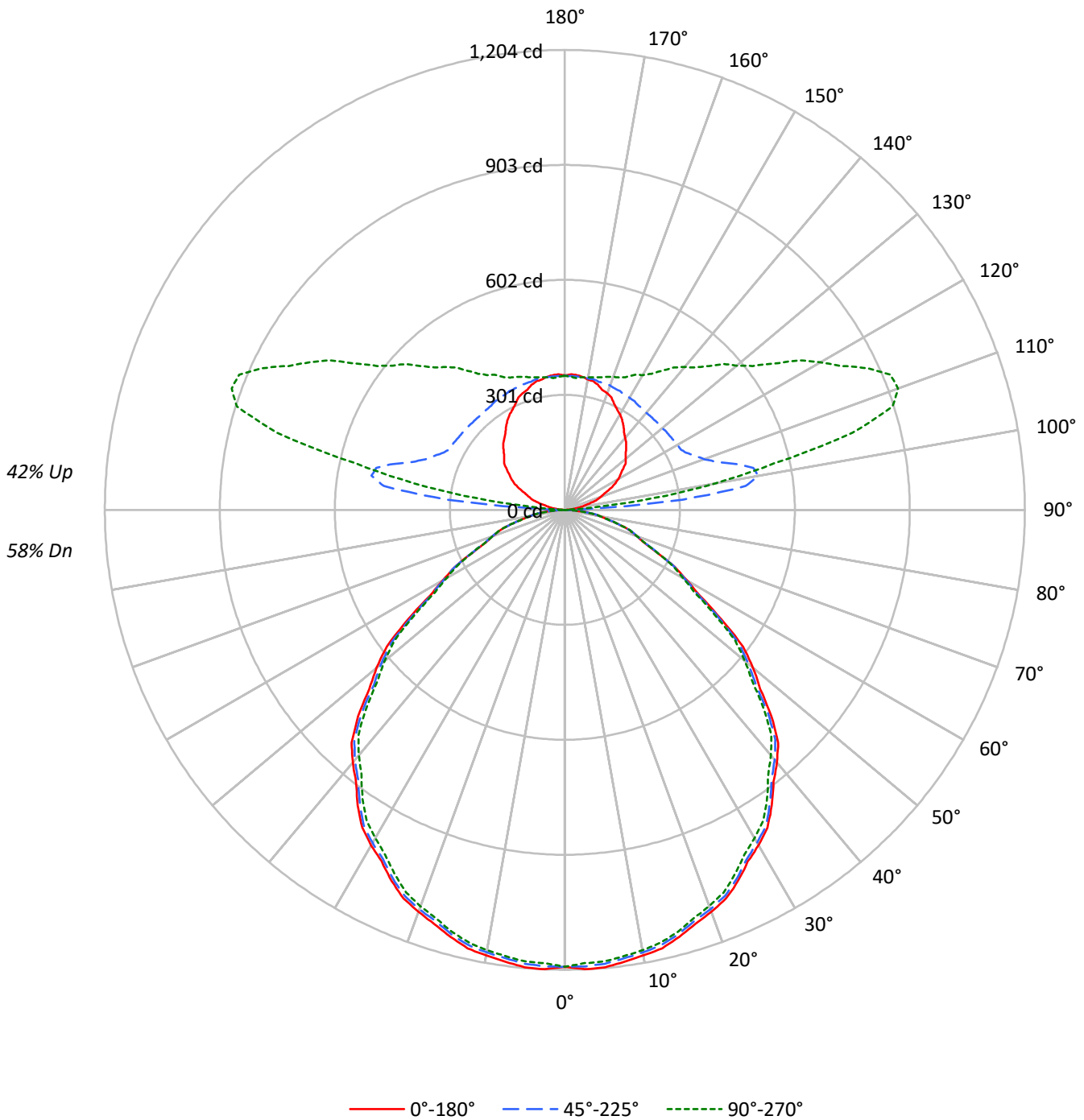
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	75	75	75	63	63	63	58		
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	56	55	54	49		
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	50	48	46	42		
3	83	74	67	61	78	69	63	58	60	56	52	52	49	45	45	42	40	36		
4	76	66	58	52	71	62	55	49	54	48	44	47	43	39	40	37	34	31		
5	70	59	51	45	65	55	48	43	48	43	38	42	38	34	36	33	30	27		
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	29	27	24		
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24	21		
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21	19		
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	26	22	19	17		
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11035	11035	11035
5°	11135	11049	10992
10°	11100	11023	10965
15°	11051	10983	10923
20°	10996	10925	10843
25°	10918	10845	10719
30°	10801	10724	10569
35°	10640	10548	10397
40°	10399	10287	10100
45°	9975	9800	9598
50°	9228	9005	8829
55°	8054	7872	7707
60°	6787	6730	6597
65°	5870	5892	5849
70°	5392	5419	5419
75°	5180	5180	5215
80°	4872	4925	4872
85°	3927	4361	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	2.2
10°-20°	323.6	6.3
20°-30°	488.1	9.4
30°-40°	581.6	11.2
40°-50°	573.4	11.1
50°-60°	438.2	8.5
60°-70°	271.2	5.2
70°-80°	154.0	3.0
80°-90°	46.9	0.9
90°-100°	160.1	3.1
100°-110°	455.6	8.8
110°-120°	436.5	8.4
120°-130°	345.5	6.7
130°-140°	277.3	5.4
140°-150°	217.1	4.2
150°-160°	158.8	3.1
160°-170°	98.4	1.9
170°-180°	33.4	0.6
0°-30°	924.9	17.9
0°-40°	1506.5	29.1
0°-60°	2518.1	48.7
0°-90°	2990.2	57.8
90°-120°	1052.2	20.3
90°-150°	1892.1	36.6
90°-180°	2183.0	42.2
0°-180°	5172.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1202	1189	1193	1189	1187	114
15°	1157	1145	1150	1146	1144	326
25°	1072	1059	1065	1054	1053	494
35°	945	934	936	924	923	590
45°	764	754	751	738	736	586
55°	501	493	489	481	479	449
65°	269	267	270	268	268	272
75°	145	145	145	146	146	153
85°	37	39	41	41	41	43
90°	0	0	0	0	0	2
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1203.6	1193.1	1196.1	1193.5	1187.9
5°	1202.3	1189.2	1193.0	1188.9	1186.9
7.5°	1193.0	1180.1	1184.0	1179.8	1178.6
10°	1184.8	1172.7	1176.6	1172.4	1170.4
12.5°	1175.7	1162.8	1167.5	1162.5	1160.5
15°	1157.0	1144.9	1149.8	1145.6	1143.6
17.5°	1136.4	1123.5	1128.3	1123.5	1120.9
20°	1119.9	1107.8	1112.7	1105.4	1104.4
22.5°	1101.8	1089.7	1094.5	1084.9	1084.7
25°	1072.5	1059.4	1065.3	1053.9	1052.9
27.5°	1037.7	1025.6	1030.5	1018.9	1017.7
30°	1013.8	1001.7	1006.6	994.2	992.1
32.5°	986.6	975.3	979.4	967.0	965.8
35°	944.7	933.7	936.5	924.1	923.1
37.5°	897.2	887.1	888.7	875.1	874.1
40°	863.4	853.3	854.1	839.6	838.6
42.5°	826.3	816.2	815.3	800.9	799.9
45°	764.5	754.4	751.1	737.6	735.6
47.5°	694.0	683.9	677.7	666.8	665.3
50°	642.9	632.8	627.4	618.1	615.1
52.5°	587.7	577.6	573.0	564.5	561.5
55°	500.7	492.6	489.4	481.1	479.1
57.5°	418.1	412.6	411.7	403.6	402.8
60°	367.8	364.8	364.7	357.5	357.5
62.5°	324.9	322.7	324.3	319.6	318.8
65°	268.9	266.9	269.9	267.9	267.9
67.5°	224.6	224.6	226.5	225.6	225.6
70°	199.9	199.9	200.9	200.9	200.9
72.5°	177.6	176.8	179.5	179.5	178.6
75°	145.3	145.3	145.3	146.3	146.3
77.5°	113.1	113.3	114.2	113.9	113.1
80°	91.7	92.7	92.7	91.7	91.7
82.5°	70.3	71.3	71.3	71.1	70.3
85°	37.1	39.1	41.2	41.2	41.2
87.5°	10.7	13.9	16.5	16.5	15.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)