

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: P562090

Luminaire Tested: **SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562090
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-PR1-150U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8413.2 lumens
Efficiency: N/A
Efficacy: 117.0 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: Semi-Indirect

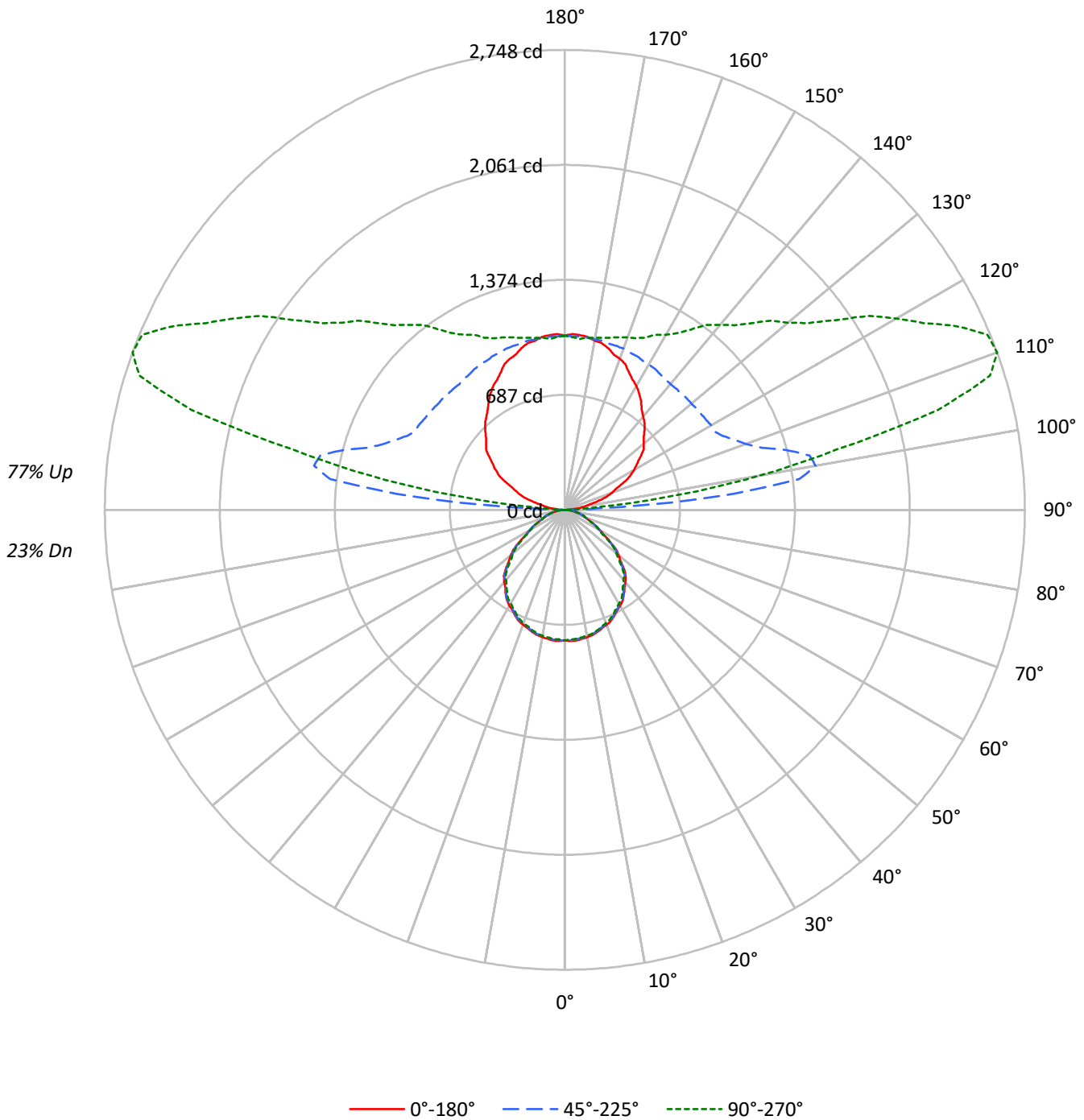
Input Watts (W): 71.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	64	60	53	49	47	38	36	34	25	24	23	17
3	76	68	61	55	68	60	54	50	47	43	39	34	31	29	22	21	19	14
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	8
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9	7
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7196	7196	7196
5°	7261	7205	7167
10°	7238	7188	7150
15°	7206	7161	7123
20°	7170	7124	7071
25°	7120	7071	6990
30°	7043	6993	6892
35°	6938	6878	6779
40°	6781	6707	6587
45°	6504	6390	6259
50°	6017	5872	5757
55°	5252	5133	5025
60°	4425	4388	4301
65°	3827	3842	3814
70°	3515	3534	3534
75°	3376	3376	3401
80°	3177	3214	3177
85°	2562	2848	2848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	0.9
10°-20°	211.0	2.5
20°-30°	318.3	3.8
30°-40°	379.2	4.5
40°-50°	373.9	4.4
50°-60°	285.8	3.4
60°-70°	176.8	2.1
70°-80°	100.4	1.2
80°-90°	30.6	0.4
90°-100°	474.1	5.6
100°-110°	1349.1	16.0
110°-120°	1292.6	15.4
120°-130°	1023.0	12.2
130°-140°	821.1	9.8
140°-150°	642.8	7.6
150°-160°	470.4	5.6
160°-170°	291.4	3.5
170°-180°	98.9	1.2
0°-30°	603.1	7.2
0°-40°	982.3	11.7
0°-60°	1642.0	19.5
0°-90°	1949.8	23.2
90°-120°	3115.8	37.0
90°-150°	5602.8	66.6
90°-180°	6463.0	76.8
0°-180°	8413.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	784	776	778	775	774	74
15°	754	747	750	747	746	213
25°	699	691	695	687	687	322
35°	616	609	611	603	602	384
45°	498	492	490	481	480	382
55°	326	321	319	314	312	293
65°	175	174	176	175	175	178
75°	95	95	95	95	95	100
85°	24	26	27	27	27	28
90°	0	0	0	0	0	3
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	784.8	778.0	780.0	778.3	774.6
5°	784.0	775.5	778.0	775.2	773.9
7.5°	778.0	769.5	772.0	769.3	768.5
10°	772.6	764.7	767.2	764.5	763.2
12.5°	766.7	758.3	761.3	758.0	756.7
15°	754.4	746.6	749.7	747.0	745.7
17.5°	741.0	732.6	735.8	732.6	730.9
20°	730.3	722.4	725.6	720.8	720.2
22.5°	718.4	710.5	713.7	707.4	707.3
25°	699.4	690.8	694.6	687.2	686.6
27.5°	676.6	668.8	671.9	664.4	663.6
30°	661.1	653.2	656.4	648.3	646.9
32.5°	643.3	636.0	638.6	630.5	629.8
35°	616.0	608.8	610.7	602.6	601.9
37.5°	585.0	578.4	579.5	570.6	570.0
40°	563.0	556.4	556.9	547.5	546.9
42.5°	538.8	532.2	531.7	522.2	521.6
45°	498.5	491.9	489.7	481.0	479.7
47.5°	452.5	446.0	441.9	434.8	433.9
50°	419.2	412.6	409.1	403.0	401.1
52.5°	383.2	376.6	373.7	368.1	366.1
55°	326.5	321.2	319.1	313.7	312.4
57.5°	272.6	269.1	268.5	263.2	262.7
60°	239.8	237.9	237.8	233.1	233.1
62.5°	211.9	210.4	211.5	208.4	207.9
65°	175.3	174.0	176.0	174.7	174.7
67.5°	146.5	146.5	147.7	147.1	147.1
70°	130.3	130.3	131.0	131.0	131.0
72.5°	115.8	115.3	117.0	117.0	116.5
75°	94.7	94.7	94.7	95.4	95.4
77.5°	73.8	73.9	74.4	74.3	73.8
80°	59.8	60.4	60.5	59.8	59.8
82.5°	45.8	46.5	46.5	46.3	45.8
85°	24.2	25.5	26.9	26.9	26.9
87.5°	7.0	9.1	10.7	10.7	10.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)