

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: P523739

Luminaire Tested: **SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523739
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6390.2 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

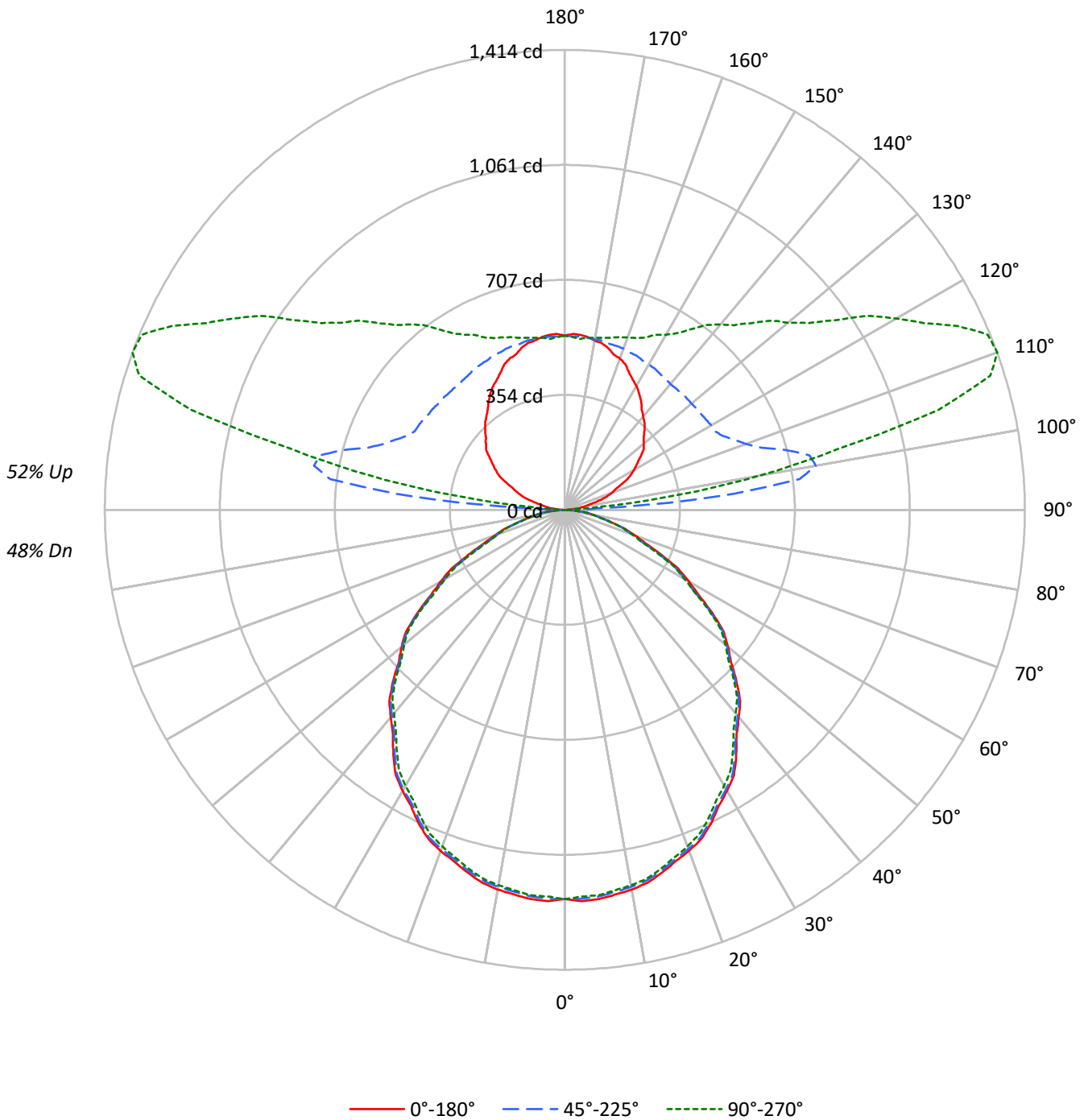
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39				34	
3	81	72	65	59	74	66	60	55	56	52	48	47	43	40	38	36	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20				17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11042	11042	11042
5°	11122	11054	11016
10°	11104	11025	10976
15°	11030	10970	10910
20°	10957	10895	10813
25°	10826	10752	10645
30°	10627	10570	10436
35°	10349	10278	10148
40°	10017	9954	9841
45°	9744	9675	9580
50°	9394	9334	9244
55°	8908	8791	8723
60°	8110	7877	7839
65°	7143	6846	6824
70°	6169	5913	5913
75°	5308	5233	5158
80°	4681	4739	4628
85°	3663	4001	4001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.8
10°-20°	323.1	5.1
20°-30°	484.0	7.6
30°-40°	567.7	8.9
40°-50°	569.5	8.9
50°-60°	485.8	7.6
60°-70°	316.8	5.0
70°-80°	158.9	2.5
80°-90°	44.0	0.7
90°-100°	244.1	3.8
100°-110°	694.5	10.9
110°-120°	665.4	10.4
120°-130°	526.6	8.2
130°-140°	422.7	6.6
140°-150°	330.9	5.2
150°-160°	242.1	3.8
160°-170°	150.0	2.3
170°-180°	50.9	0.8
0°-30°	920.3	14.4
0°-40°	1488.0	23.3
0°-60°	2543.2	39.8
0°-90°	3063.0	47.9
90°-120°	1603.9	25.1
90°-150°	2884.1	45.1
90°-180°	3327.0	52.1
0°-180°	6390.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1201	1190	1194	1189	1189	114
15°	1155	1144	1148	1144	1142	326
25°	1064	1051	1056	1047	1046	489
35°	919	910	912	902	901	574
45°	747	742	742	734	734	575
55°	554	552	546	543	542	492
65°	327	321	314	312	313	327
75°	149	149	147	146	145	162
85°	35	38	38	38	38	41
90°	0	0	0	0	0	2
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.8	1196.8	1196.8	1196.8	1196.8
2.5°	1204.3	1194.5	1196.8	1195.0	1190.0
5°	1200.9	1189.7	1193.6	1189.4	1189.4
7.5°	1192.8	1180.5	1184.4	1180.2	1180.0
10°	1185.2	1172.9	1176.8	1172.6	1171.6
12.5°	1174.3	1162.0	1166.8	1161.7	1161.5
15°	1154.8	1143.5	1148.5	1144.3	1142.2
17.5°	1132.8	1120.5	1126.5	1120.6	1119.8
20°	1116.0	1103.7	1109.7	1101.3	1101.3
22.5°	1095.9	1083.5	1090.4	1079.5	1079.5
25°	1063.5	1051.2	1056.2	1046.7	1045.7
27.5°	1025.2	1013.1	1018.2	1007.5	1007.3
30°	997.5	986.2	992.2	980.7	979.6
32.5°	967.3	956.8	961.2	949.6	948.6
35°	918.8	909.6	912.5	902.0	901.0
37.5°	867.8	858.4	861.7	852.7	852.3
40°	831.7	825.6	826.5	819.1	817.1
42.5°	798.2	791.2	792.1	784.7	784.3
45°	746.8	741.7	741.5	734.2	734.2
47.5°	692.2	688.4	687.2	681.1	680.9
50°	654.5	651.4	650.3	645.0	644.0
52.5°	615.1	613.6	610.0	605.6	605.4
55°	553.8	551.7	546.5	543.3	542.3
57.5°	487.3	483.2	477.2	472.6	473.5
60°	439.5	435.4	426.9	424.8	424.8
62.5°	393.3	388.4	379.9	377.0	378.6
65°	327.2	321.1	313.6	311.5	312.6
67.5°	267.3	261.7	253.6	253.6	252.8
70°	228.7	225.6	219.2	219.2	219.2
72.5°	194.2	192.8	188.2	188.1	187.3
75°	148.9	148.9	146.8	145.8	144.7
77.5°	111.6	112.0	111.0	109.9	108.0
80°	88.1	90.2	89.2	88.1	87.1
82.5°	66.3	68.3	68.2	66.3	66.1
85°	34.6	37.7	37.8	37.8	37.8
87.5°	9.2	12.5	13.4	13.4	14.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)