

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: P523688

Luminaire Tested: **SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523688
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-PP3-050U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

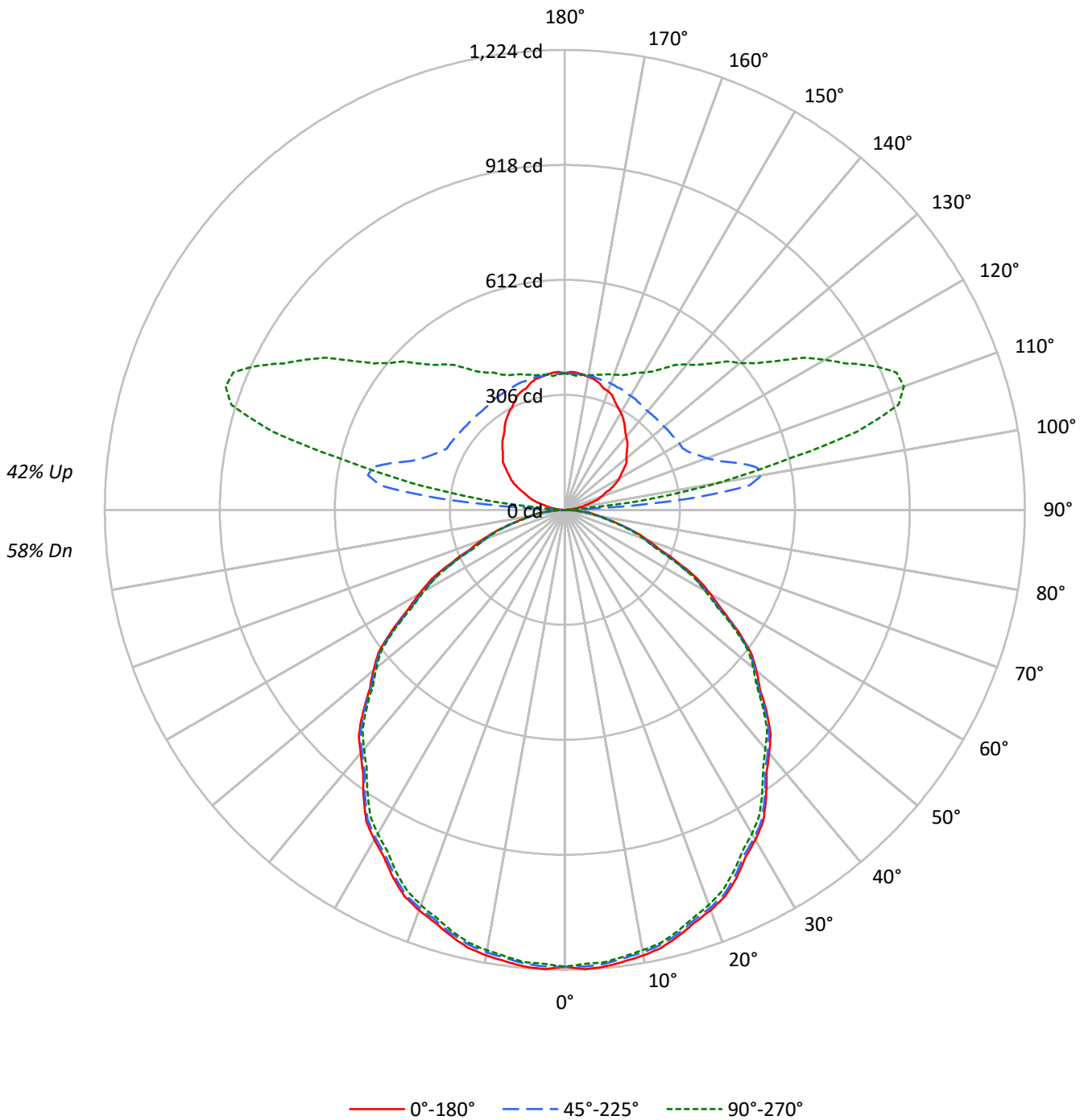
Lumens per Lamp: N/A
Luminaire Lumens: 5371.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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				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	75	75	75	63	63	63	58
1	100	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	42	39	35
4	76	65	57	51	71	61	54	49	54	48	44	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	29	36	30	26	31	27	23	27	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11220	11220	11220
5°	11302	11233	11193
10°	11283	11203	11153
15°	11208	11147	11086
20°	11134	11071	10988
25°	11002	10925	10817
30°	10798	10741	10604
35°	10515	10443	10311
40°	10180	10115	9999
45°	9901	9832	9734
50°	9545	9485	9393
55°	9051	8932	8863
60°	8241	8005	7964
65°	7259	6958	6934
70°	6266	6007	6007
75°	5393	5319	5244
80°	4755	4814	4702
85°	3726	4065	4065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	2.1
10°-20°	328.3	6.1
20°-30°	491.8	9.2
30°-40°	576.8	10.7
40°-50°	578.7	10.8
50°-60°	493.6	9.2
60°-70°	321.9	6.0
70°-80°	161.5	3.0
80°-90°	44.7	0.8
90°-100°	165.7	3.1
100°-110°	471.4	8.8
110°-120°	451.7	8.4
120°-130°	357.5	6.7
130°-140°	286.9	5.3
140°-150°	224.6	4.2
150°-160°	164.4	3.1
160°-170°	101.8	1.9
170°-180°	34.5	0.6
0°-30°	935.1	17.4
0°-40°	1512.0	28.2
0°-60°	2584.3	48.1
0°-90°	3112.4	57.9
90°-120°	1088.8	20.3
90°-150°	1957.8	36.5
90°-180°	2259.0	42.1
0°-180°	5371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1220	1209	1213	1209	1209	116
15°	1173	1162	1167	1163	1161	331
25°	1081	1068	1073	1064	1063	497
35°	934	924	927	916	916	583
45°	759	754	754	746	746	584
55°	563	561	555	552	551	500
65°	332	326	319	317	318	332
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	0	0	0	0	0	2
95°	18	71	321	111	68	21
105°	73	111	480	849	807	78
115°	136	165	364	772	906	134
125°	192	213	348	577	690	172
135°	235	255	344	487	551	181
145°	277	291	346	422	460	173
155°	317	324	355	381	397	146
165°	350	351	359	366	372	98
175°	366	364	363	361	358	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1223.7	1213.7	1216.1	1214.2	1209.2
5°	1220.3	1208.9	1212.9	1208.6	1208.6
7.5°	1212.0	1199.5	1203.5	1199.2	1199.0
10°	1204.3	1191.8	1195.8	1191.5	1190.5
12.5°	1193.2	1180.7	1185.6	1180.5	1180.2
15°	1173.4	1162.0	1167.0	1162.7	1160.6
17.5°	1151.0	1138.5	1144.6	1138.7	1137.8
20°	1134.0	1121.5	1127.6	1119.1	1119.1
22.5°	1113.5	1101.0	1108.0	1096.9	1096.9
25°	1080.7	1068.2	1073.2	1063.6	1062.6
27.5°	1041.7	1029.4	1034.7	1023.8	1023.6
30°	1013.6	1002.1	1008.2	996.5	995.4
32.5°	982.9	972.2	976.7	964.9	963.9
35°	933.6	924.2	927.2	916.5	915.5
37.5°	881.8	872.2	875.6	866.5	866.1
40°	845.2	838.9	839.8	832.3	830.2
42.5°	811.1	804.0	804.9	797.4	797.0
45°	758.8	753.6	753.5	746.0	746.0
47.5°	703.4	699.5	698.3	692.1	691.9
50°	665.0	661.9	660.8	655.4	654.4
52.5°	625.0	623.5	619.9	615.4	615.2
55°	562.7	560.6	555.3	552.1	551.0
57.5°	495.2	491.0	484.9	480.3	481.1
60°	446.6	442.4	433.8	431.6	431.6
62.5°	399.7	394.7	386.0	383.1	384.7
65°	332.5	326.3	318.7	316.6	317.6
67.5°	271.6	265.9	257.7	257.7	256.9
70°	232.3	229.2	222.7	222.7	222.7
72.5°	197.4	195.9	191.2	191.2	190.3
75°	151.3	151.3	149.2	148.1	147.1
77.5°	113.4	113.8	112.8	111.7	109.8
80°	89.5	91.6	90.6	89.5	88.5
82.5°	67.4	69.4	69.3	67.4	67.1
85°	35.2	38.3	38.4	38.4	38.4
87.5°	9.4	12.7	13.6	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	29.3	68.0	19.8	14.9
95°	18.0	71.4	320.7	111.0	68.4
97.5°	33.0	83.6	494.0	353.5	242.2
100°	43.5	90.9	531.6	538.4	414.7
102.5°	55.2	98.7	523.3	689.2	581.2
105°	73.3	111.1	480.4	848.6	806.7
107.5°	91.7	125.6	430.4	893.5	930.8
110°	104.4	136.1	401.6	876.3	960.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>116.5</i>	146.7	382.3	835.7	955.2
115°	<i>136.2</i>	164.6	364.3	771.7	906.2
117.5°	<i>153.5</i>	180.1	353.6	701.8	844.3
120°	<i>167.3</i>	189.6	352.5	661.9	798.4
122.5°	<i>178.3</i>	200.6	349.8	626.8	753.6
125°	<i>192.2</i>	213.1	347.7	577.0	689.9
127.5°	<i>207.2</i>	226.8	346.6	547.2	640.2
130°	<i>215.0</i>	234.6	344.9	526.5	607.6
132.5°	<i>223.3</i>	242.3	344.9	510.3	584.9
135°	<i>235.0</i>	254.6	343.5	487.4	550.9
137.5°	<i>246.1</i>	265.1	343.4	468.0	522.9
140°	<i>254.4</i>	274.0	342.9	451.9	504.6
142.5°	<i>263.8</i>	280.1	344.5	439.0	486.4
145°	<i>277.2</i>	291.4	346.3	421.8	459.7
147.5°	<i>288.7</i>	302.4	349.4	404.4	437.1
150°	<i>298.6</i>	308.1	350.5	398.7	421.7
152.5°	<i>306.4</i>	316.4	351.6	390.9	412.3
155°	<i>316.6</i>	324.0	354.6	381.2	396.8
157.5°	<i>329.3</i>	333.8	355.3	376.8	387.9
160°	<i>335.9</i>	339.3	358.1	373.5	382.9
162.5°	<i>339.8</i>	343.7	358.6	370.7	378.0
165°	<i>349.8</i>	351.1	358.8	366.5	371.9
167.5°	<i>356.5</i>	355.3	361.9	365.4	367.6
170°	<i>358.8</i>	358.1	360.8	361.6	364.3
172.5°	<i>363.7</i>	361.4	362.5	360.5	362.6
175°	<i>366.4</i>	364.3	362.9	360.8	358.1
177.5°	<i>367.5</i>	364.2	362.5	360.3	360.8
180°	<i>363.6</i>	363.6	363.6	363.6	363.6

(END OF REPORT)