

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: P561482

Luminaire Tested: **SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561482
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 5400.7 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

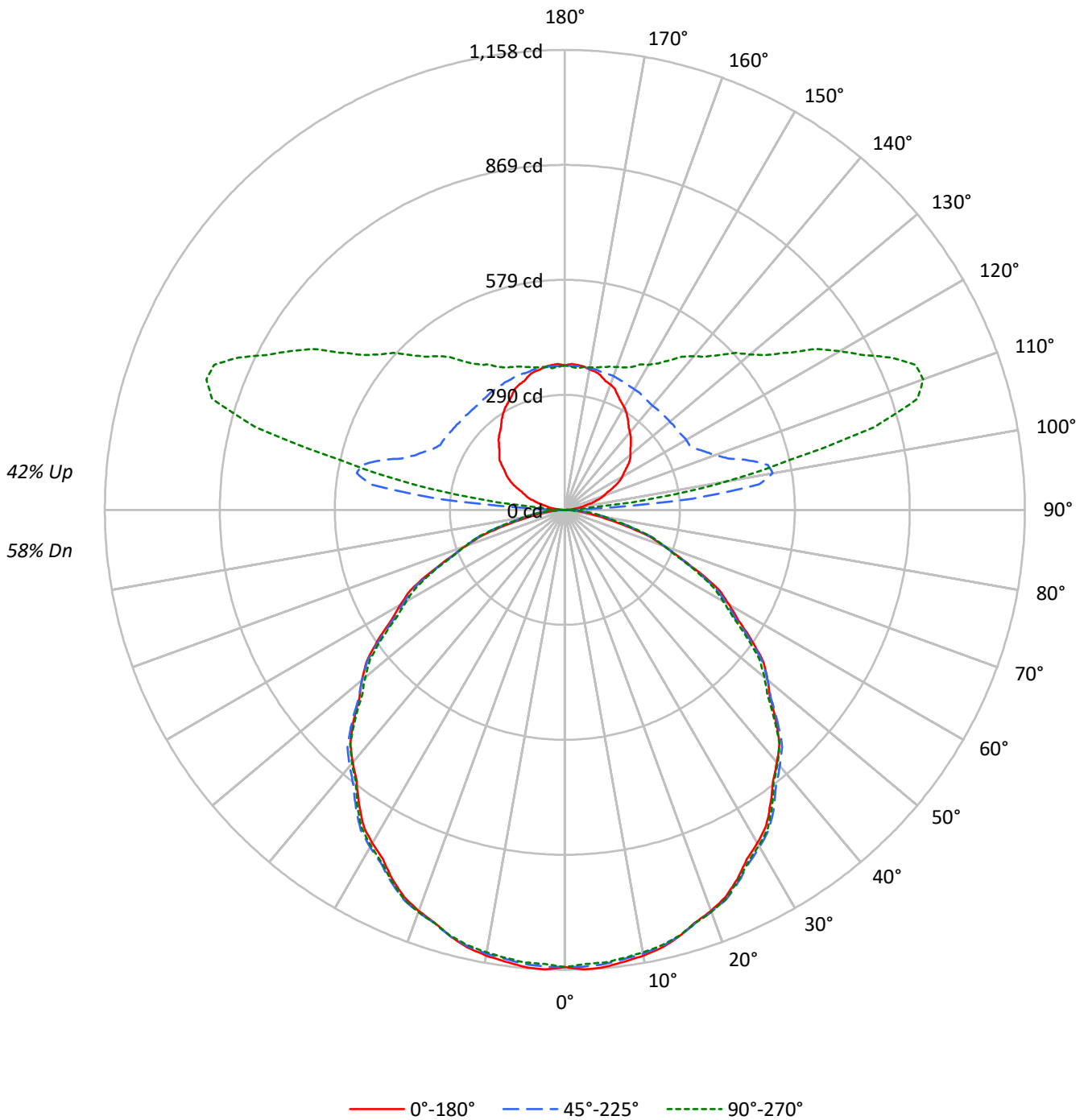
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	64	64	64	58
1	100	95	91	88	93	89	86	83	77	75	72	66	65	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	47	45	41
3	83	73	66	60	77	69	62	57	60	55	50	52	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	42	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10622	10622	10622
5°	10703	10633	10594
10°	10676	10627	10597
15°	10620	10620	10610
20°	10551	10582	10582
25°	10451	10527	10495
30°	10323	10449	10403
35°	10169	10326	10254
40°	10001	10143	10040
45°	9820	9890	9736
50°	9564	9564	9410
55°	9260	9140	9003
60°	8813	8636	8497
65°	8145	7981	7914
70°	7132	7189	7159
75°	5739	6345	6384
80°	4081	5382	5435
85°	2488	4510	4510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	2.0
10°-20°	312.7	5.8
20°-30°	473.5	8.8
30°-40°	567.7	10.5
40°-50°	578.8	10.7
50°-60°	505.3	9.4
60°-70°	361.8	6.7
70°-80°	186.3	3.4
80°-90°	47.1	0.9
90°-100°	165.7	3.1
100°-110°	471.4	8.7
110°-120°	451.7	8.4
120°-130°	357.5	6.6
130°-140°	286.9	5.3
140°-150°	224.6	4.2
150°-160°	164.4	3.0
160°-170°	101.8	1.9
170°-180°	34.5	0.6
0°-30°	895.2	16.6
0°-40°	1462.9	27.1
0°-60°	2547.0	47.2
0°-90°	3142.2	58.2
90°-120°	1088.8	20.2
90°-150°	1957.8	36.3
90°-180°	2259.0	41.8
0°-180°	5400.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1156	1144	1148	1145	1144	110
15°	1112	1102	1112	1112	1111	314
25°	1027	1019	1034	1031	1031	472
35°	903	901	917	910	910	565
45°	753	750	758	748	746	579
55°	576	568	568	560	560	513
65°	373	365	366	362	362	369
75°	161	168	178	179	179	174
85°	24	36	43	44	43	32
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°	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1158.1	1148.1	1151.3	1148.7	1144.5
5°	1155.6	1144.1	1148.1	1144.9	1143.9
7.5°	1147.3	1135.8	1141.1	1138.9	1137.9
10°	1139.6	1128.1	1134.3	1132.1	1131.1
12.5°	1129.4	1118.7	1125.7	1123.6	1123.4
15°	1111.9	1102.5	1111.9	1111.9	1110.8
17.5°	1089.9	1081.4	1091.4	1092.0	1091.4
20°	1074.6	1065.2	1077.8	1076.7	1077.8
22.5°	1055.8	1048.1	1061.6	1058.8	1059.9
25°	1026.6	1019.3	1034.1	1030.9	1030.9
27.5°	992.1	986.8	1002.9	999.5	999.5
30°	969.0	963.8	980.8	976.5	976.5
32.5°	943.4	939.9	956.0	950.9	950.9
35°	902.9	900.8	916.8	910.4	910.4
37.5°	861.1	859.3	873.7	866.0	863.5
40°	830.4	829.4	842.2	833.6	833.6
42.5°	799.7	798.7	809.8	799.5	799.5
45°	752.6	750.5	758.0	748.3	746.2
47.5°	701.2	699.2	703.8	693.3	692.3
50°	666.3	664.2	666.3	656.7	655.6
52.5°	630.5	626.7	627.0	617.4	617.2
55°	575.7	568.4	568.2	559.7	559.7
57.5°	517.7	508.1	508.9	501.7	500.6
60°	477.6	467.2	468.0	461.6	460.5
62.5°	438.4	426.3	428.8	421.5	421.3
65°	373.1	364.8	365.6	362.5	362.5
67.5°	310.4	302.7	308.3	305.7	305.5
70°	264.4	259.2	266.5	266.5	265.4
72.5°	221.7	221.5	230.7	230.7	231.3
75°	161.0	168.3	178.0	179.1	179.1
77.5°	107.5	120.4	131.1	131.5	131.3
80°	76.8	91.3	101.3	103.4	102.3
82.5°	52.0	67.4	75.7	77.8	76.8
85°	23.5	36.0	42.6	43.7	42.6
87.5°	6.8	14.3	17.1	17.0	15.4
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)