

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: P562686

Luminaire Tested: **SQ4-PC3-050U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562686
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

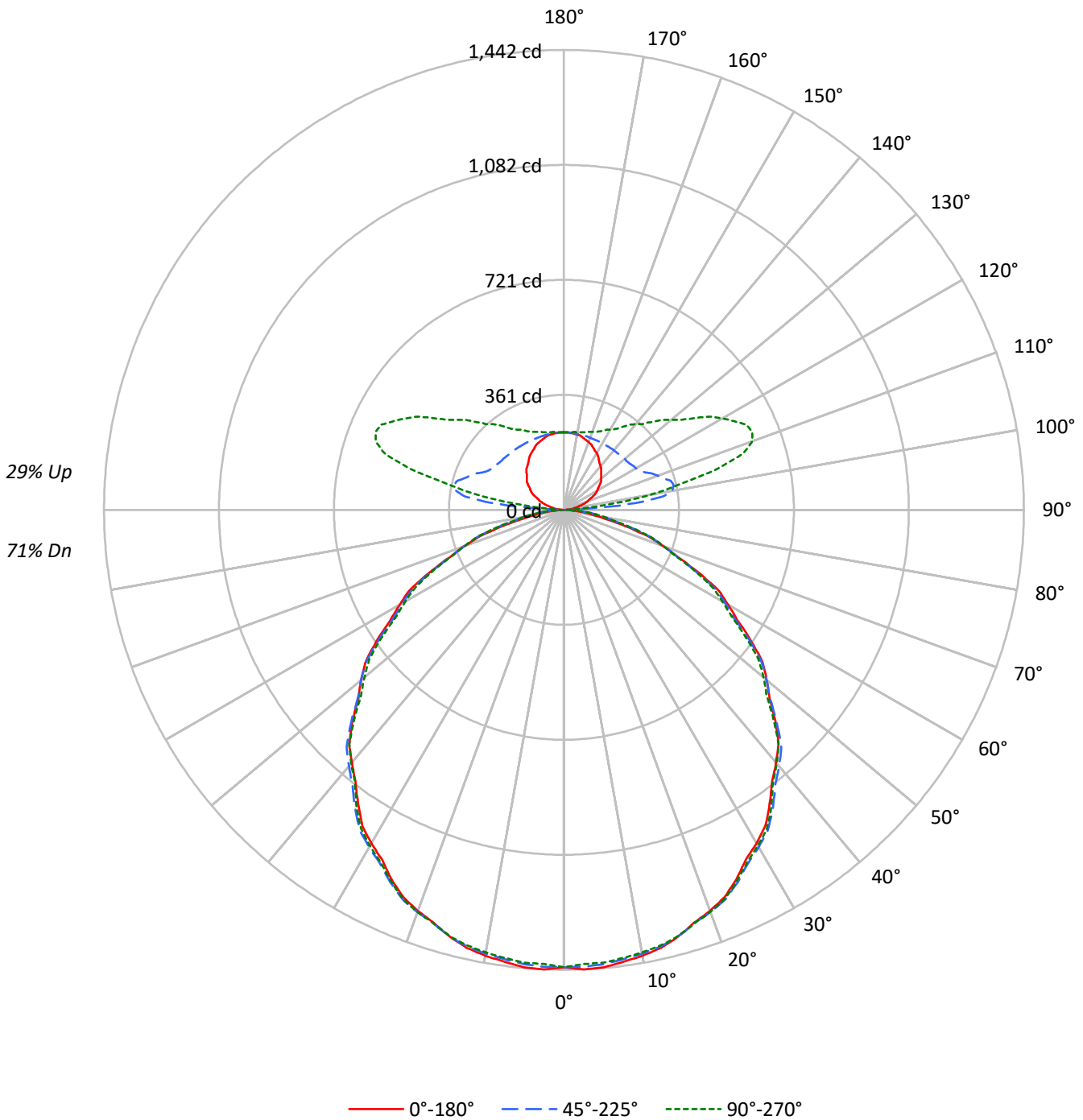
Lumens per Lamp: N/A
Luminaire Lumens: 5499.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12859	13014	12957
35°	12666	12861	12771
40°	12457	12633	12505
45°	12231	12318	12127
50°	11912	11912	11721
55°	11533	11384	11213
60°	10975	10756	10584
65°	10145	9942	9855
70°	8883	8953	8918
75°	7147	7903	7953
80°	5079	6700	6774
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	2.5
10°-20°	389.5	7.1
20°-30°	589.8	10.7
30°-40°	707.1	12.9
40°-50°	721.0	13.1
50°-60°	629.4	11.4
60°-70°	450.5	8.2
70°-80°	232.1	4.2
80°-90°	59.6	1.1
90°-100°	116.5	2.1
100°-110°	316.6	5.8
110°-120°	325.5	5.9
120°-130°	260.2	4.7
130°-140°	204.5	3.7
140°-150°	156.8	2.9
150°-160°	112.8	2.1
160°-170°	69.0	1.3
170°-180°	23.2	0.4
0°-30°	1115.0	20.3
0°-40°	1822.0	33.1
0°-60°	3172.3	57.7
0°-90°	3914.6	71.2
90°-120°	758.6	13.8
90°-150°	1380.1	25.1
90°-180°	1585.0	28.8
0°-180°	5499.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1439	1425	1430	1426	1425	137
15°	1385	1373	1385	1385	1384	390
25°	1279	1270	1288	1284	1284	588
35°	1125	1122	1142	1134	1134	703
45°	937	935	944	932	929	722
55°	717	708	708	697	697	639
65°	465	454	455	451	451	460
75°	200	210	222	223	223	217
85°	29	45	53	54	53	40
90°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1442.5	1430.0	1434.0	1430.7	1425.5
5°	1439.3	1425.0	1430.0	1426.0	1424.7
7.5°	1429.0	1414.7	1421.3	1418.6	1417.3
10°	1419.4	1405.1	1412.8	1410.1	1408.8
12.5°	1406.6	1393.4	1402.1	1399.5	1399.2
15°	1384.9	1373.2	1384.9	1384.8	1383.5
17.5°	1357.5	1346.9	1359.4	1360.2	1359.4
20°	1338.4	1326.7	1342.4	1341.1	1342.4
22.5°	1315.0	1305.4	1322.2	1318.8	1320.1
25°	1278.7	1269.6	1287.9	1284.0	1284.0
27.5°	1235.6	1229.1	1249.2	1244.9	1244.9
30°	1207.0	1200.5	1221.6	1216.2	1216.2
32.5°	1175.1	1170.7	1190.8	1184.4	1184.4
35°	1124.6	1122.0	1141.9	1133.9	1133.9
37.5°	1072.6	1070.2	1088.2	1078.6	1075.5
40°	1034.3	1033.0	1048.9	1038.3	1038.3
42.5°	996.1	994.8	1008.6	995.8	995.8
45°	937.4	934.8	944.1	932.0	929.4
47.5°	873.4	870.8	876.6	863.6	862.3
50°	829.9	827.3	829.9	817.9	816.6
52.5°	785.2	780.6	781.0	769.0	768.8
55°	717.0	707.9	707.7	697.1	697.1
57.5°	644.8	632.8	633.9	624.8	623.5
60°	594.8	581.9	582.9	574.9	573.6
62.5°	546.0	530.9	534.0	525.0	524.7
65°	464.7	454.3	455.4	451.4	451.4
67.5°	386.6	377.0	384.0	380.8	380.5
70°	329.3	322.8	331.9	331.9	330.6
72.5°	276.2	275.9	287.3	287.3	288.1
75°	200.5	209.6	221.7	223.1	223.1
77.5°	133.8	149.9	163.3	163.8	163.6
80°	95.6	113.8	126.1	128.8	127.5
82.5°	64.8	84.0	94.3	96.9	95.6
85°	29.2	44.8	53.1	54.4	53.1
87.5°	8.7	18.5	22.3	22.6	20.5
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>87.0</i>	110.9	298.0	582.7	639.0
115°	<i>99.9</i>	121.3	278.7	554.4	631.5
117.5°	<i>112.1</i>	132.5	266.3	514.4	601.2
120°	<i>120.2</i>	140.1	260.7	487.5	573.7
122.5°	<i>127.1</i>	146.9	257.0	460.6	543.8
125°	<i>137.4</i>	156.5	252.1	424.8	501.1
127.5°	<i>146.6</i>	165.5	249.5	397.7	463.2
130°	<i>152.2</i>	170.5	248.2	380.7	439.5
132.5°	<i>157.8</i>	176.2	247.0	366.2	418.2
135°	<i>165.5</i>	183.8	245.1	346.0	390.3
137.5°	<i>173.8</i>	190.4	244.2	328.2	365.5
140°	<i>178.8</i>	194.8	243.5	316.9	350.5
142.5°	<i>183.8</i>	198.6	242.9	308.0	336.1
145°	<i>191.2</i>	205.0	242.0	294.0	316.1
147.5°	<i>199.7</i>	211.4	241.2	283.0	300.4
150°	<i>205.3</i>	215.2	241.2	276.6	290.4
152.5°	<i>209.7</i>	218.4	240.6	271.0	282.3
155°	<i>216.2</i>	223.9	240.4	264.0	271.6
157.5°	<i>222.6</i>	228.6	240.4	259.3	265.1
160°	<i>226.4</i>	231.7	240.4	256.1	260.7
162.5°	<i>230.1</i>	234.2	241.0	253.6	257.0
165°	<i>234.2</i>	237.2	241.2	251.4	252.1
167.5°	<i>238.4</i>	239.9	242.0	248.7	249.3
170°	<i>239.6</i>	241.2	242.0	247.4	247.4
172.5°	<i>240.9</i>	241.8	242.0	246.2	246.2
175°	<i>242.8</i>	243.5	242.0	245.1	244.3
177.5°	<i>243.4</i>	243.4	241.5	244.0	242.8
180°	<i>242.8</i>	242.8	242.8	242.8	242.8

(END OF REPORT)