

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: P562524

Luminaire Tested: **SQ4-PC3-025U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562524
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

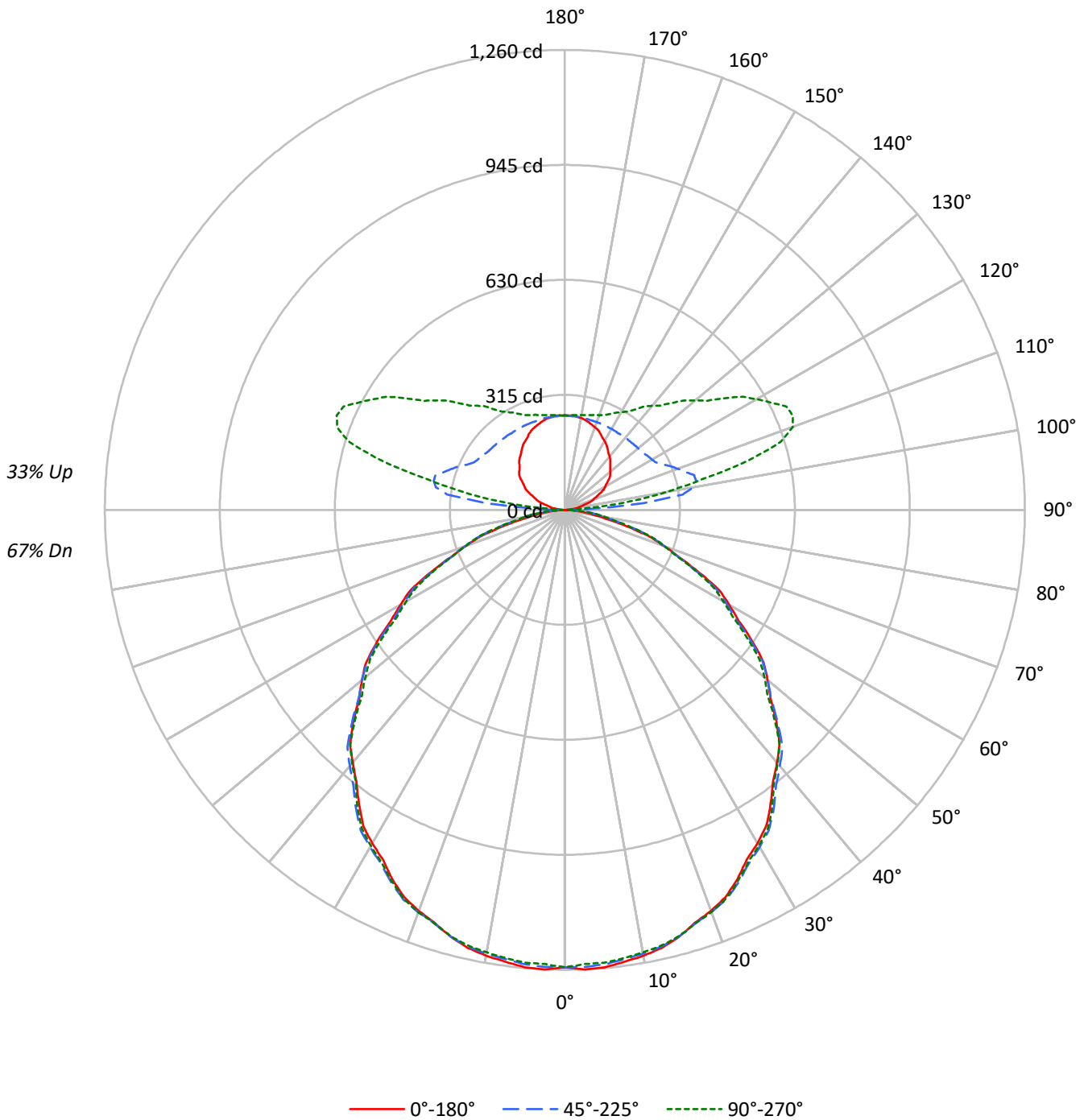
Lumens per Lamp: N/A
Luminaire Lumens: 5099.9 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57				
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47				
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40				
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34				
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30				
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26				
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23				
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19				
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5039	4974	4899
60°	4796	4700	4624
65°	4433	4344	4306
70°	3880	3913	3897
75°	3123	3454	3474
80°	2218	2928	2959
85°	1350	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	2.3
10°-20°	340.3	6.7
20°-30°	515.4	10.1
30°-40°	617.9	12.1
40°-50°	630.0	12.4
50°-60°	550.0	10.8
60°-70°	393.7	7.7
70°-80°	202.8	4.0
80°-90°	52.7	1.0
90°-100°	126.2	2.5
100°-110°	331.8	6.5
110°-120°	344.1	6.7
120°-130°	276.0	5.4
130°-140°	216.6	4.2
140°-150°	166.2	3.3
150°-160°	119.7	2.3
160°-170°	73.2	1.4
170°-180°	24.7	0.5
0°-30°	974.3	19.1
0°-40°	1592.1	31.2
0°-60°	2772.1	54.4
0°-90°	3421.3	67.1
90°-120°	802.1	15.7
90°-150°	1460.9	28.6
90°-180°	1679.0	32.9
0°-180°	5099.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1258	1245	1250	1246	1245	119
15°	1210	1200	1210	1210	1209	341
25°	1117	1109	1126	1122	1122	514
35°	983	980	998	991	991	615
45°	819	817	825	814	812	631
55°	626	619	618	609	609	559
65°	406	397	398	394	394	402
75°	175	183	194	195	195	189
85°	26	39	46	48	46	35
90°	2	5	13	7	7	2
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.1	1253.1	1253.1	1253.1	1253.1
2.5°	1260.5	1249.6	1253.1	1250.2	1245.7
5°	1257.7	1245.2	1249.6	1246.1	1245.0
7.5°	1248.7	1236.2	1241.9	1239.6	1238.5
10°	1240.3	1227.8	1234.5	1232.2	1231.0
12.5°	1229.2	1217.6	1225.2	1222.9	1222.7
15°	1210.2	1199.9	1210.2	1210.1	1209.0
17.5°	1186.2	1176.9	1187.9	1188.6	1187.9
20°	1169.5	1159.3	1173.0	1171.9	1173.0
22.5°	1149.1	1140.7	1155.4	1152.4	1153.5
25°	1117.3	1109.4	1125.5	1122.0	1122.0
27.5°	1079.7	1074.1	1091.6	1087.9	1087.9
30°	1054.7	1049.0	1067.4	1062.8	1062.8
32.5°	1026.8	1023.0	1040.5	1035.0	1035.0
35°	982.7	980.5	997.8	990.9	990.9
37.5°	937.3	935.2	950.9	942.5	939.8
40°	903.8	902.7	916.6	907.3	907.3
42.5°	870.4	869.3	881.3	870.2	870.2
45°	819.1	816.9	824.9	814.5	812.2
47.5°	763.2	761.0	766.0	754.6	753.5
50°	725.2	722.9	725.2	714.7	713.6
52.5°	686.2	682.1	682.5	672.0	671.8
55°	626.5	618.6	618.4	609.1	609.1
57.5°	563.4	553.0	553.9	546.0	544.9
60°	519.8	508.5	509.4	502.4	501.2
62.5°	477.1	463.9	466.7	458.8	458.5
65°	406.1	397.0	398.0	394.5	394.5
67.5°	337.9	329.5	335.5	332.8	332.5
70°	287.7	282.1	290.1	290.0	288.9
72.5°	241.3	241.1	251.1	251.1	251.8
75°	175.2	183.1	193.8	194.9	194.9
77.5°	117.0	131.0	142.7	143.2	142.9
80°	83.5	99.4	110.2	112.5	111.4
82.5°	56.6	73.4	82.4	84.7	83.5
85°	25.5	39.1	46.4	47.5	46.4
87.5°	7.8	16.6	21.2	19.9	18.0
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)