

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: P563192

Luminaire Tested: **SQ4-PP3-025U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563192
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

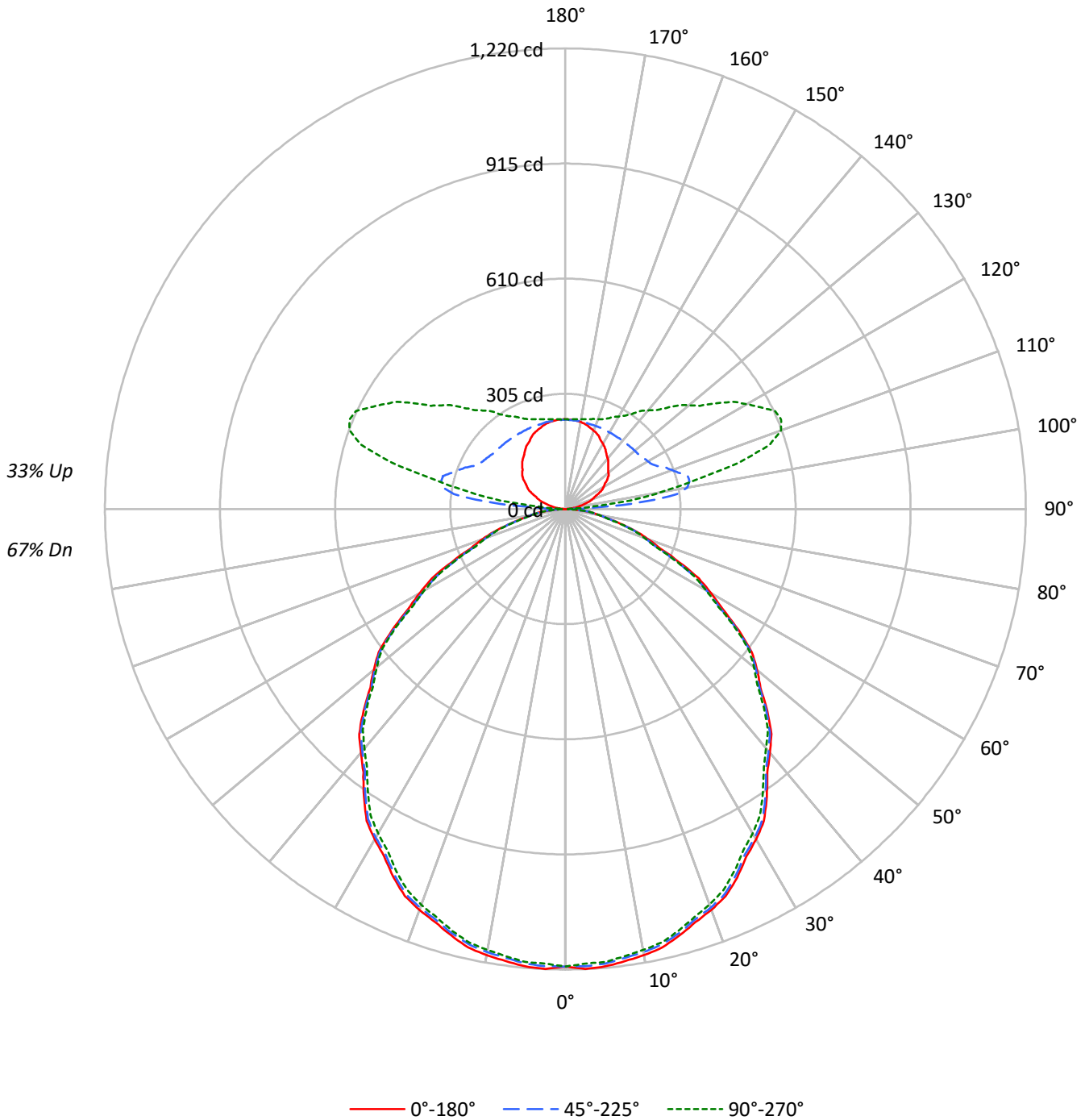
Lumens per Lamp: N/A
Luminaire Lumens: 4640.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57				
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48				
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41				
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35				
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31				
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27				
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21				
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5579
10°	5623	5584	5558
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5382	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4851
50°	4757	4727	4681
55°	4511	4452	4417
60°	4107	3989	3969
65°	3618	3467	3456
70°	3124	2994	2994
75°	2690	2650	2613
80°	2370	2399	2343
85°	1858	2022	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	2.5
10°-20°	327.3	7.1
20°-30°	490.2	10.6
30°-40°	575.0	12.4
40°-50°	576.8	12.4
50°-60°	492.1	10.6
60°-70°	320.9	6.9
70°-80°	161.0	3.5
80°-90°	45.8	1.0
90°-100°	115.6	2.5
100°-110°	303.9	6.5
110°-120°	315.1	6.8
120°-130°	252.8	5.4
130°-140°	198.3	4.3
140°-150°	152.2	3.3
150°-160°	109.6	2.4
160°-170°	67.1	1.4
170°-180°	22.7	0.5
0°-30°	932.1	20.1
0°-40°	1507.1	32.5
0°-60°	2576.0	55.5
0°-90°	3103.7	66.9
90°-120°	734.6	15.8
90°-150°	1337.9	28.8
90°-180°	1537.0	33.1
0°-180°	4640.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1216	1205	1209	1205	1205	116
15°	1170	1158	1163	1159	1157	330
25°	1077	1065	1070	1060	1059	495
35°	931	921	924	914	913	581
45°	756	751	751	744	744	582
55°	561	559	554	550	549	498
65°	332	325	318	316	317	331
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	2	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1219.8	1209.8	1212.1	1210.3	1205.3
5°	1216.4	1205.0	1208.9	1204.7	1204.7
7.5°	1208.1	1195.6	1199.6	1195.3	1195.1
10°	1200.5	1188.0	1192.0	1187.7	1186.6
12.5°	1189.4	1176.9	1181.8	1176.6	1176.4
15°	1169.6	1158.2	1163.3	1159.0	1156.9
17.5°	1147.3	1134.9	1141.0	1135.0	1134.2
20°	1130.3	1117.9	1124.0	1115.5	1115.5
22.5°	1109.9	1097.5	1104.4	1093.4	1093.4
25°	1077.2	1064.8	1069.8	1060.2	1059.2
27.5°	1038.3	1026.1	1031.3	1020.5	1020.3
30°	1010.3	998.9	1005.0	993.3	992.2
32.5°	979.7	969.1	973.5	961.8	960.8
35°	930.6	921.3	924.2	913.6	912.6
37.5°	879.0	869.4	872.8	863.7	863.3
40°	842.4	836.2	837.1	829.6	827.6
42.5°	808.4	801.4	802.3	794.8	794.4
45°	756.4	751.2	751.1	743.6	743.6
47.5°	701.1	697.2	696.0	689.9	689.7
50°	662.9	659.8	658.7	653.3	652.3
52.5°	623.0	621.5	617.9	613.4	613.2
55°	560.9	558.8	553.5	550.3	549.2
57.5°	493.6	489.4	483.4	478.7	479.5
60°	445.1	441.0	432.4	430.2	430.2
62.5°	398.4	393.4	384.8	381.8	383.5
65°	331.5	325.2	317.6	315.5	316.6
67.5°	270.7	265.1	256.9	256.9	256.0
70°	231.6	228.5	222.0	222.0	222.0
72.5°	196.7	195.3	190.6	190.6	189.7
75°	150.9	150.9	148.7	147.6	146.6
77.5°	113.0	113.4	112.4	111.3	109.4
80°	89.2	91.3	90.3	89.2	88.2
82.5°	67.1	69.2	69.1	67.1	66.9
85°	35.1	38.2	38.2	38.2	38.2
87.5°	9.7	13.6	16.0	14.8	15.7
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)