

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: P563370

Luminaire Tested: **SQ4-PP3-075U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563370
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

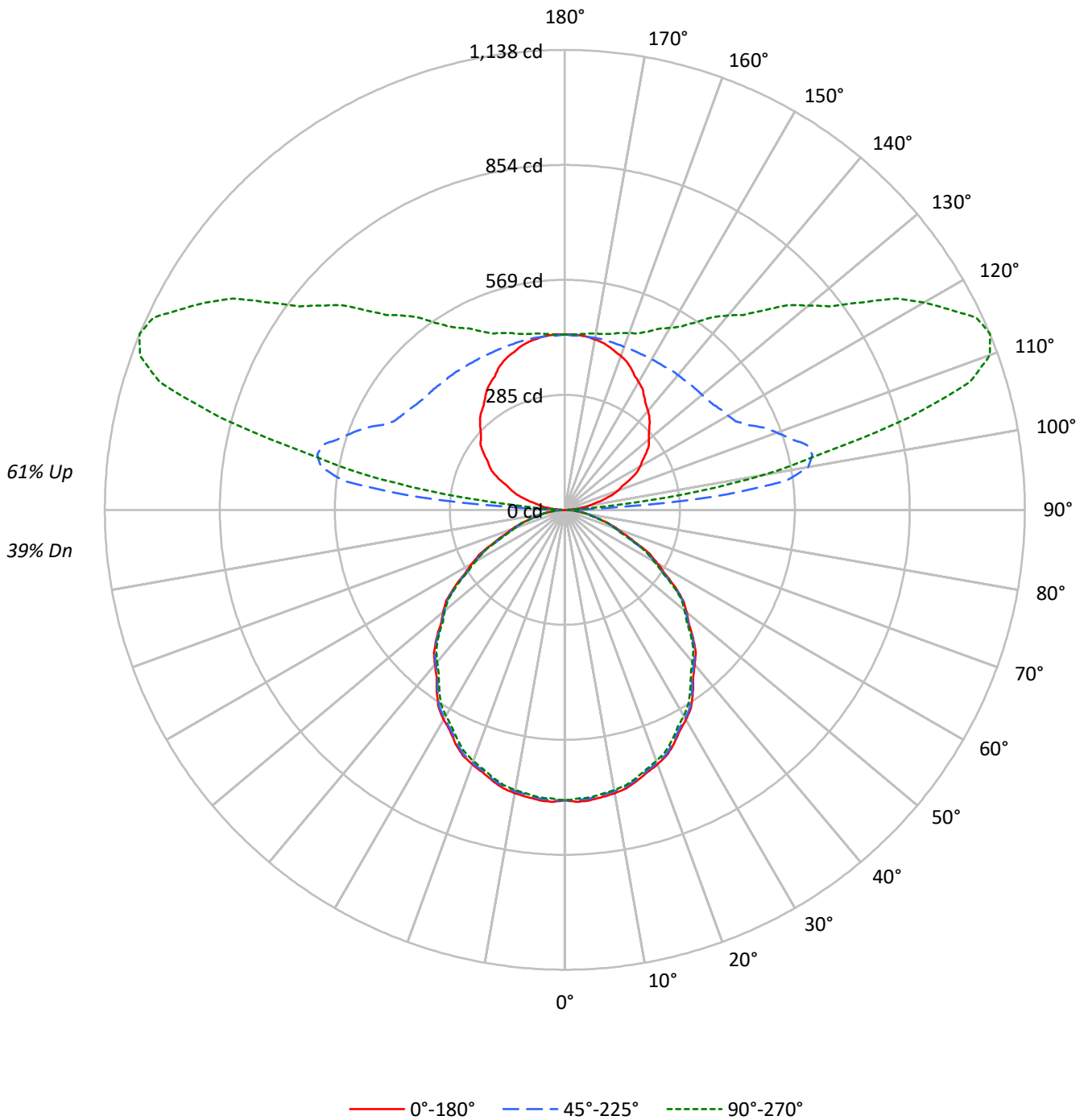
Lumens per Lamp: N/A
Luminaire Lumens: 4666.9 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34				
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16				
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6553
20°	6582	6545	6496
25°	6504	6459	6395
30°	6384	6349	6270
35°	6216	6173	6096
40°	6017	5980	5911
45°	5853	5811	5754
50°	5644	5606	5553
55°	5352	5281	5239
60°	4871	4731	4709
65°	4292	4113	4100
70°	3706	3553	3553
75°	3190	3144	3098
80°	2811	2848	2779
85°	2202	2403	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	1.5
10°-20°	194.1	4.2
20°-30°	290.7	6.2
30°-40°	341.0	7.3
40°-50°	342.1	7.3
50°-60°	291.8	6.3
60°-70°	190.3	4.1
70°-80°	95.5	2.0
80°-90°	27.5	0.6
90°-100°	204.6	4.4
100°-110°	562.9	12.1
110°-120°	581.0	12.4
120°-130°	465.5	10.0
130°-140°	365.6	7.8
140°-150°	280.2	6.0
150°-160°	201.4	4.3
160°-170°	123.2	2.6
170°-180°	41.5	0.9
0°-30°	552.8	11.8
0°-40°	893.8	19.2
0°-60°	1527.7	32.7
0°-90°	1841.1	39.4
90°-120°	1348.4	28.9
90°-150°	2459.7	52.7
90°-180°	2826.0	60.6
0°-180°	4666.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	721	715	717	714	714	69
15°	694	687	690	687	686	196
25°	639	632	634	629	628	294
35°	552	546	548	542	541	345
45°	449	446	445	441	441	345
55°	333	331	328	326	326	296
65°	197	193	188	187	188	196
75°	90	90	88	88	87	97
85°	21	23	23	23	23	24
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.9	718.9	718.9	718.9	718.9
2.5°	723.4	717.5	718.9	717.8	714.9
5°	721.4	714.6	717.0	714.5	714.5
7.5°	716.5	709.1	711.5	708.9	708.8
10°	712.0	704.6	706.9	704.4	703.8
12.5°	705.4	698.0	700.9	697.8	697.7
15°	693.7	686.9	689.9	687.4	686.1
17.5°	680.5	673.1	676.7	673.1	672.6
20°	670.4	663.0	666.6	661.6	661.6
22.5°	658.3	650.9	655.0	648.5	648.5
25°	638.9	631.5	634.5	628.8	628.2
27.5°	615.8	608.5	611.7	605.2	605.1
30°	599.2	592.4	596.0	589.1	588.5
32.5°	581.0	574.8	577.4	570.4	569.8
35°	551.9	546.4	548.1	541.8	541.2
37.5°	521.3	515.6	517.7	512.2	512.0
40°	499.6	495.9	496.5	492.0	490.8
42.5°	479.5	475.3	475.8	471.4	471.2
45°	448.6	445.5	445.4	441.0	441.0
47.5°	415.8	413.5	412.8	409.2	409.0
50°	393.2	391.3	390.6	387.5	386.9
52.5°	369.5	368.6	366.4	363.8	363.7
55°	332.7	331.4	328.3	326.4	325.7
57.5°	292.7	290.3	286.7	283.9	284.4
60°	264.0	261.5	256.4	255.2	255.2
62.5°	236.3	233.3	228.2	226.5	227.5
65°	196.6	192.9	188.4	187.1	187.8
67.5°	160.5	157.2	152.3	152.3	151.8
70°	137.4	135.5	131.7	131.7	131.7
72.5°	116.7	115.8	113.0	113.0	112.5
75°	89.5	89.5	88.2	87.6	86.9
77.5°	67.0	67.3	66.7	66.0	64.9
80°	52.9	54.2	53.6	52.9	52.3
82.5°	39.8	41.1	41.0	39.8	39.7
85°	20.8	22.6	22.7	22.7	22.7
87.5°	5.7	8.2	9.4	9.7	10.2
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)