

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: P564042

Luminaire Tested: **SQ4-PR1-075U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564042
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

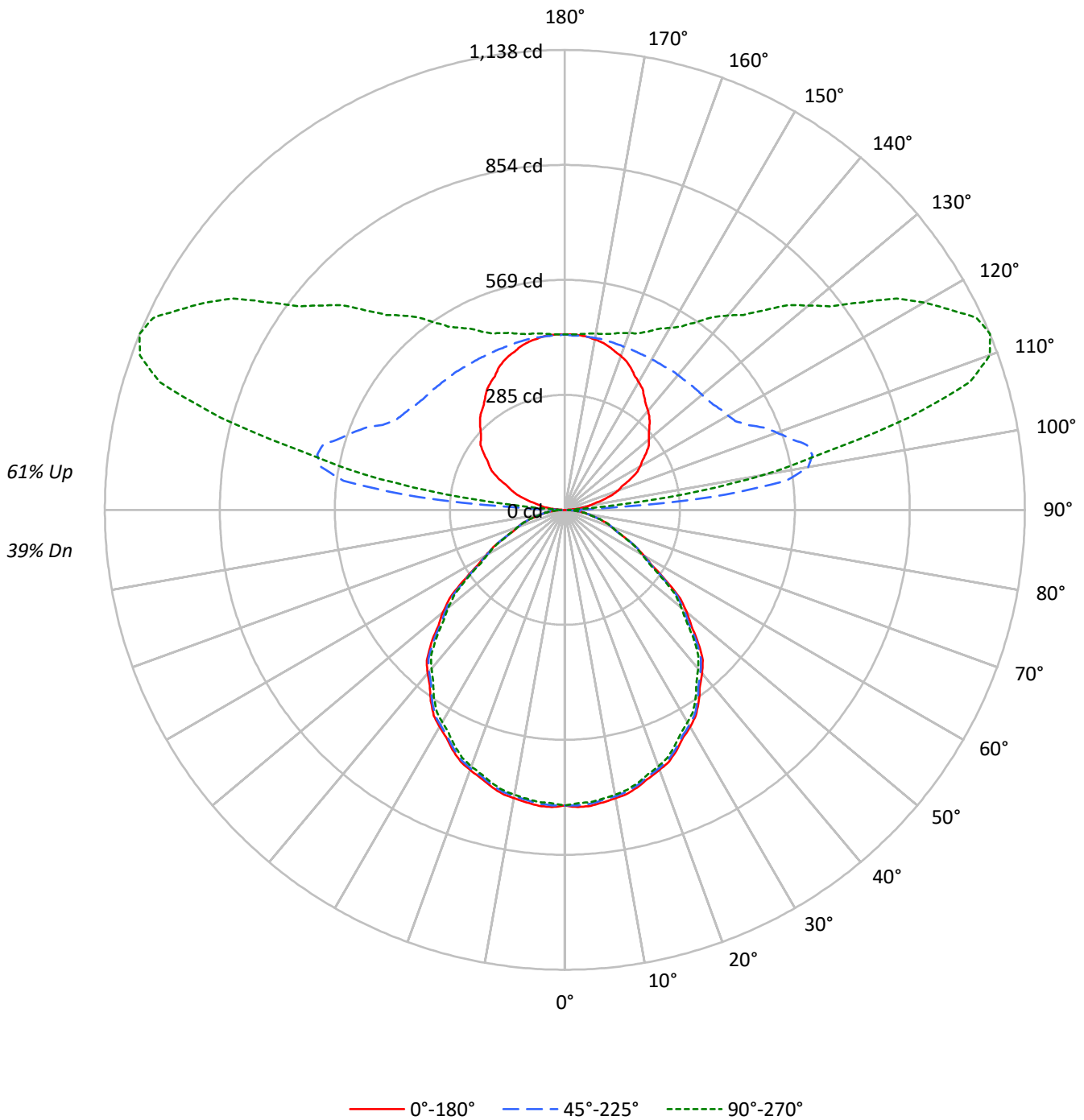
Lumens per Lamp: N/A
Luminaire Lumens: 4656.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	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	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6751	6751	6751
5°	6811	6759	6724
10°	6789	6743	6707
15°	6760	6718	6681
20°	6726	6682	6633
25°	6678	6633	6557
30°	6606	6559	6466
35°	6509	6453	6360
40°	6360	6292	6179
45°	6101	5994	5872
50°	5644	5509	5400
55°	4927	4814	4713
60°	4152	4117	4036
65°	3591	3604	3578
70°	3299	3315	3315
75°	3169	3169	3190
80°	2981	3013	2981
85°	2403	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.5
10°-20°	198.0	4.3
20°-30°	298.6	6.4
30°-40°	355.8	7.6
40°-50°	350.7	7.5
50°-60°	268.1	5.8
60°-70°	165.9	3.6
70°-80°	94.2	2.0
80°-90°	29.8	0.6
90°-100°	204.6	4.4
100°-110°	562.9	12.1
110°-120°	581.0	12.5
120°-130°	465.5	10.0
130°-140°	365.6	7.9
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°	565.7	12.2
0°-40°	921.5	19.8
0°-60°	1540.3	33.1
0°-90°	1830.2	39.3
90°-120°	1348.4	29.0
90°-150°	2459.7	52.8
90°-180°	2826.0	60.7
0°-180°	4656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	735	727	730	727	726	70
15°	708	700	703	701	700	200
25°	656	648	652	645	644	302
35°	578	571	573	565	565	361
45°	468	461	459	451	450	358
55°	306	301	299	294	293	274
65°	164	163	165	164	164	167
75°	89	89	89	90	90	94
85°	23	24	25	25	25	26
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°	731.7	731.7	731.7	731.7	731.7
2.5°	736.2	729.8	731.7	730.1	726.6
5°	735.4	727.4	729.8	727.2	726.0
7.5°	729.8	721.9	724.2	721.7	721.0
10°	724.7	717.3	719.7	717.1	715.9
12.5°	719.2	711.3	714.1	711.1	709.9
15°	707.7	700.3	703.3	700.8	699.5
17.5°	695.1	687.2	690.2	687.3	685.7
20°	685.0	677.6	680.6	676.2	675.6
22.5°	673.9	666.5	669.5	663.6	663.5
25°	656.0	648.0	651.6	644.7	644.1
27.5°	634.7	627.3	630.3	623.3	622.5
30°	620.1	612.7	615.7	608.1	606.9
32.5°	603.5	596.6	599.1	591.5	590.8
35°	577.9	571.1	572.9	565.3	564.7
37.5°	548.8	542.6	543.6	535.3	534.7
40°	528.1	521.9	522.4	513.6	513.0
42.5°	505.4	499.3	498.7	489.9	489.3
45°	467.6	461.4	459.4	451.2	450.0
47.5°	424.5	418.3	414.5	407.8	407.0
50°	393.2	387.1	383.8	378.1	376.2
52.5°	359.5	353.3	350.5	345.3	343.5
55°	306.3	301.3	299.3	294.3	293.0
57.5°	255.7	252.4	251.8	246.9	246.4
60°	225.0	223.1	223.1	218.7	218.7
62.5°	198.8	197.4	198.4	195.5	195.0
65°	164.5	163.3	165.1	163.9	163.9
67.5°	137.4	137.4	138.5	138.0	138.0
70°	122.3	122.3	122.9	122.9	122.9
72.5°	108.6	108.2	109.8	109.8	109.3
75°	88.9	88.9	88.9	89.5	89.5
77.5°	69.2	69.3	69.8	69.7	69.2
80°	56.1	56.7	56.7	56.1	56.1
82.5°	43.0	43.6	43.6	43.5	43.0
85°	22.7	23.9	25.2	25.2	25.2
87.5°	6.7	9.3	11.4	11.7	11.2
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)