

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: P561831

Luminaire Tested: **SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561831
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-050U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

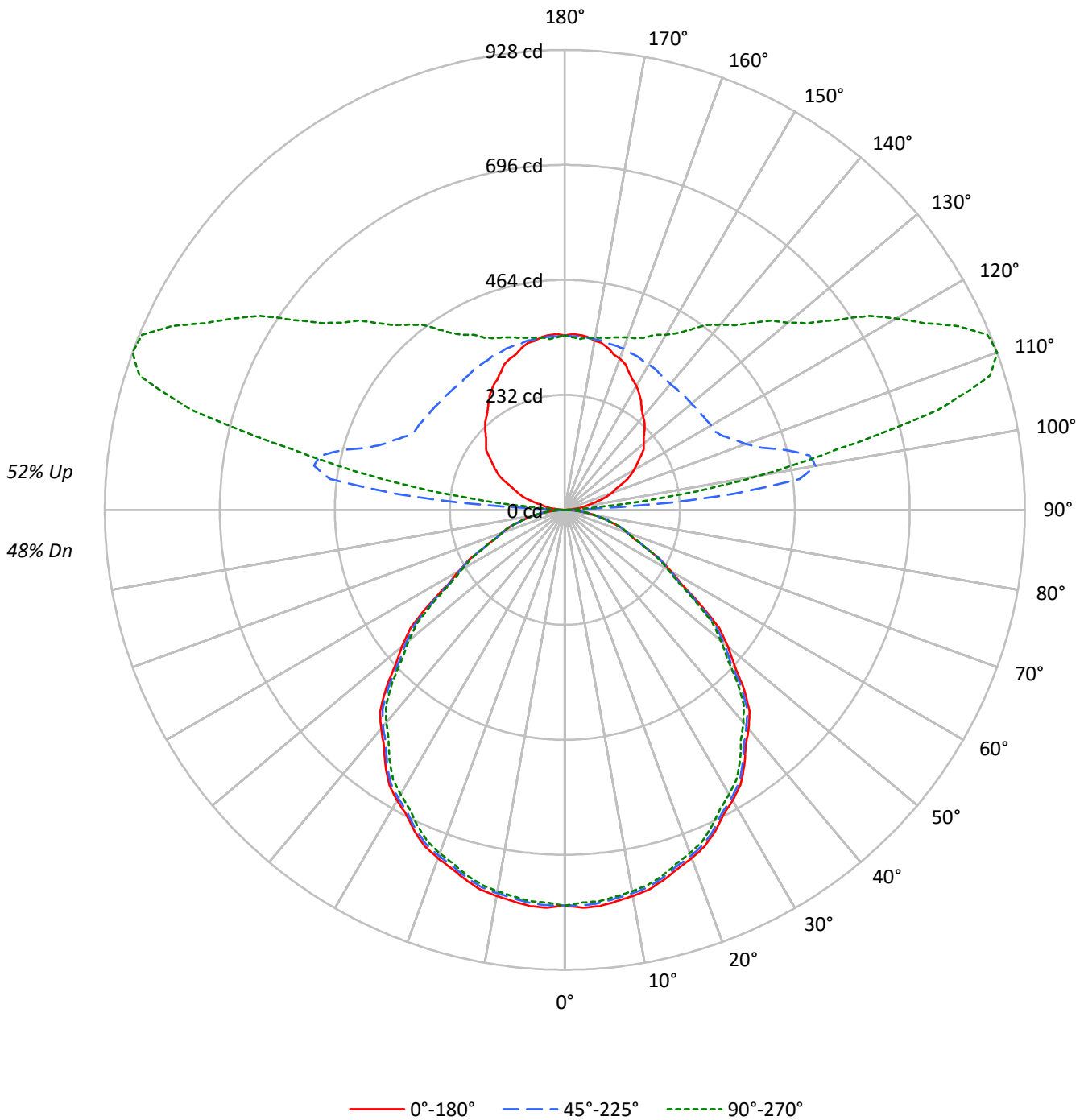
Lumens per Lamp: N/A
Luminaire Lumens: 4179.3 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.5
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7369	7369	7369
5°	7435	7378	7340
10°	7411	7360	7322
15°	7379	7333	7294
20°	7342	7295	7241
25°	7290	7241	7158
30°	7211	7160	7058
35°	7105	7043	6943
40°	6943	6869	6745
45°	6660	6543	6409
50°	6162	6013	5895
55°	5377	5257	5146
60°	4532	4493	4405
65°	3919	3934	3906
70°	3601	3617	3617
75°	3458	3458	3483
80°	3252	3289	3252
85°	2625	2911	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.8
10°-20°	216.1	5.2
20°-30°	325.9	7.8
30°-40°	388.3	9.3
40°-50°	382.9	9.2
50°-60°	292.6	7.0
60°-70°	181.1	4.3
70°-80°	102.8	2.5
80°-90°	31.3	0.7
90°-100°	160.1	3.8
100°-110°	455.6	10.9
110°-120°	436.5	10.4
120°-130°	345.5	8.3
130°-140°	277.3	6.6
140°-150°	217.1	5.2
150°-160°	158.8	3.8
160°-170°	98.4	2.4
170°-180°	33.4	0.8
0°-30°	617.6	14.8
0°-40°	1005.9	24.1
0°-60°	1681.4	40.2
0°-90°	1996.6	47.8
90°-120°	1052.2	25.2
90°-150°	1892.1	45.3
90°-180°	2183.0	52.2
0°-180°	4179.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	803	794	797	794	792	76
15°	772	764	768	765	764	218
25°	716	707	711	704	703	330
35°	631	623	625	617	616	394
45°	510	504	502	492	491	391
55°	334	329	327	321	320	300
65°	180	178	180	179	179	182
75°	97	97	97	98	98	102
85°	25	26	28	28	28	29
90°	0	0	0	0	0	2
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.7	798.7	798.7	798.7	798.7
2.5°	803.6	796.6	798.7	796.9	793.2
5°	802.8	794.1	796.6	793.8	792.5
7.5°	796.6	788.0	790.6	787.8	787.0
10°	791.1	783.0	785.6	782.8	781.5
12.5°	785.1	776.5	779.6	776.2	774.9
15°	772.5	764.5	767.7	764.9	763.6
17.5°	758.8	750.2	753.4	750.2	748.5
20°	747.8	739.7	743.0	738.1	737.5
22.5°	735.7	727.6	730.9	724.4	724.2
25°	716.1	707.4	711.3	703.7	703.1
27.5°	692.9	684.8	688.1	680.3	679.5
30°	676.9	668.8	672.1	663.8	662.5
32.5°	658.8	651.2	653.9	645.7	644.9
35°	630.8	623.4	625.3	617.1	616.4
37.5°	599.0	592.3	593.4	584.3	583.6
40°	576.5	569.8	570.3	560.6	560.0
42.5°	551.7	545.0	544.4	534.8	534.1
45°	510.4	503.7	501.5	492.5	491.2
47.5°	463.4	456.7	452.5	445.2	444.3
50°	429.3	422.5	418.9	412.7	410.7
52.5°	392.4	385.7	382.6	376.9	374.9
55°	334.3	329.0	326.8	321.2	319.9
57.5°	279.2	275.5	274.9	269.5	269.0
60°	245.6	243.6	243.5	238.7	238.7
62.5°	217.0	215.5	216.6	213.4	212.8
65°	179.5	178.2	180.2	178.9	178.9
67.5°	150.0	150.0	151.2	150.7	150.7
70°	133.5	133.5	134.1	134.1	134.1
72.5°	118.6	118.1	119.8	119.8	119.3
75°	97.0	97.0	97.0	97.7	97.7
77.5°	75.5	75.7	76.2	76.1	75.5
80°	61.2	61.9	61.9	61.2	61.2
82.5°	46.9	47.6	47.6	47.5	46.9
85°	24.8	26.1	27.5	27.5	27.5
87.5°	7.2	9.3	11.0	11.0	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)