

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: P561888

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561888
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-PR1-075U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

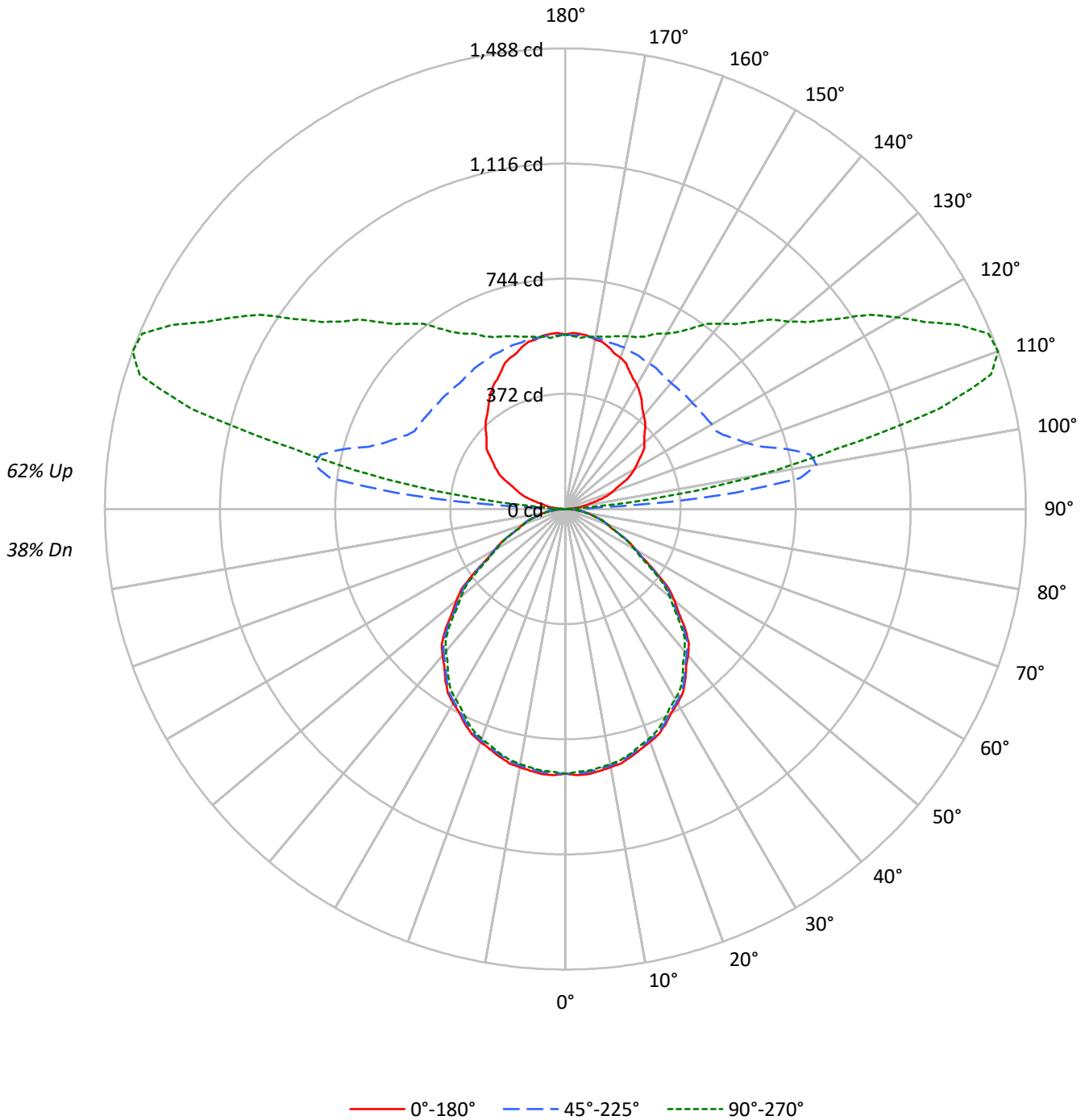
Lumens per Lamp: N/A
Luminaire Lumens: 5638.4 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7893	7893	7893
5°	7964	7903	7862
10°	7939	7884	7842
15°	7904	7854	7812
20°	7864	7813	7755
25°	7809	7756	7667
30°	7725	7669	7560
35°	7610	7544	7436
40°	7437	7358	7224
45°	7135	7009	6864
50°	6600	6440	6314
55°	5760	5630	5511
60°	4855	4812	4718
65°	4198	4216	4183
70°	3858	3876	3876
75°	3704	3704	3729
80°	3485	3523	3485
85°	2805	3123	3123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.4
10°-20°	231.5	4.1
20°-30°	349.1	6.2
30°-40°	416.0	7.4
40°-50°	410.1	7.3
50°-60°	313.4	5.6
60°-70°	194.0	3.4
70°-80°	110.2	2.0
80°-90°	33.5	0.6
90°-100°	256.7	4.6
100°-110°	730.5	13.0
110°-120°	699.9	12.4
120°-130°	553.9	9.8
130°-140°	444.6	7.9
140°-150°	348.1	6.2
150°-160°	254.7	4.5
160°-170°	157.8	2.8
170°-180°	53.5	0.9
0°-30°	661.5	11.7
0°-40°	1077.5	19.1
0°-60°	1801.0	31.9
0°-90°	2138.7	37.9
90°-120°	1687.1	29.9
90°-150°	3033.8	53.8
90°-180°	3500.0	62.1
0°-180°	5638.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	860	850	853	850	849	82
15°	828	819	822	819	818	234
25°	767	758	762	754	753	353
35°	676	668	670	661	660	422
45°	547	540	537	528	526	419
55°	358	352	350	344	343	321
65°	192	191	193	192	192	195
75°	104	104	104	105	105	110
85°	26	28	30	30	30	31
90°	0	0	0	0	0	2
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.5	855.5	855.5	855.5	855.5
2.5°	860.8	853.3	855.5	853.6	849.6
5°	859.9	850.5	853.3	850.3	848.9
7.5°	853.3	844.1	846.8	843.8	843.0
10°	847.4	838.7	841.5	838.5	837.1
12.5°	840.9	831.7	835.0	831.4	830.0
15°	827.5	818.8	822.3	819.4	817.9
17.5°	812.8	803.5	807.0	803.6	801.7
20°	801.0	792.3	795.8	790.6	789.9
22.5°	788.0	779.4	782.8	775.9	775.8
25°	767.1	757.7	761.9	753.8	753.1
27.5°	742.2	733.5	737.0	728.7	727.9
30°	725.1	716.4	719.9	711.0	709.6
32.5°	705.6	697.5	700.5	691.6	690.7
35°	675.7	667.8	669.8	660.9	660.2
37.5°	641.7	634.5	635.6	625.9	625.2
40°	617.5	610.3	610.9	600.5	599.8
42.5°	591.0	583.8	583.2	572.8	572.1
45°	546.8	539.5	537.2	527.6	526.1
47.5°	496.3	489.1	484.7	476.9	475.9
50°	459.8	452.6	448.7	442.1	439.9
52.5°	420.3	413.1	409.8	403.8	401.6
55°	358.1	352.4	350.0	344.1	342.6
57.5°	299.0	295.1	294.4	288.7	288.1
60°	263.1	260.9	260.8	255.7	255.7
62.5°	232.4	230.8	232.0	228.6	228.0
65°	192.3	190.9	193.1	191.6	191.6
67.5°	160.6	160.6	162.0	161.4	161.4
70°	143.0	143.0	143.7	143.7	143.7
72.5°	127.0	126.5	128.4	128.3	127.8
75°	103.9	103.9	103.9	104.6	104.6
77.5°	80.9	81.1	81.6	81.5	80.9
80°	65.6	66.3	66.3	65.6	65.6
82.5°	50.3	51.0	51.0	50.8	50.3
85°	26.5	28.0	29.5	29.5	29.5
87.5°	7.7	10.0	11.8	11.8	11.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)