

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: P561836

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561836
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

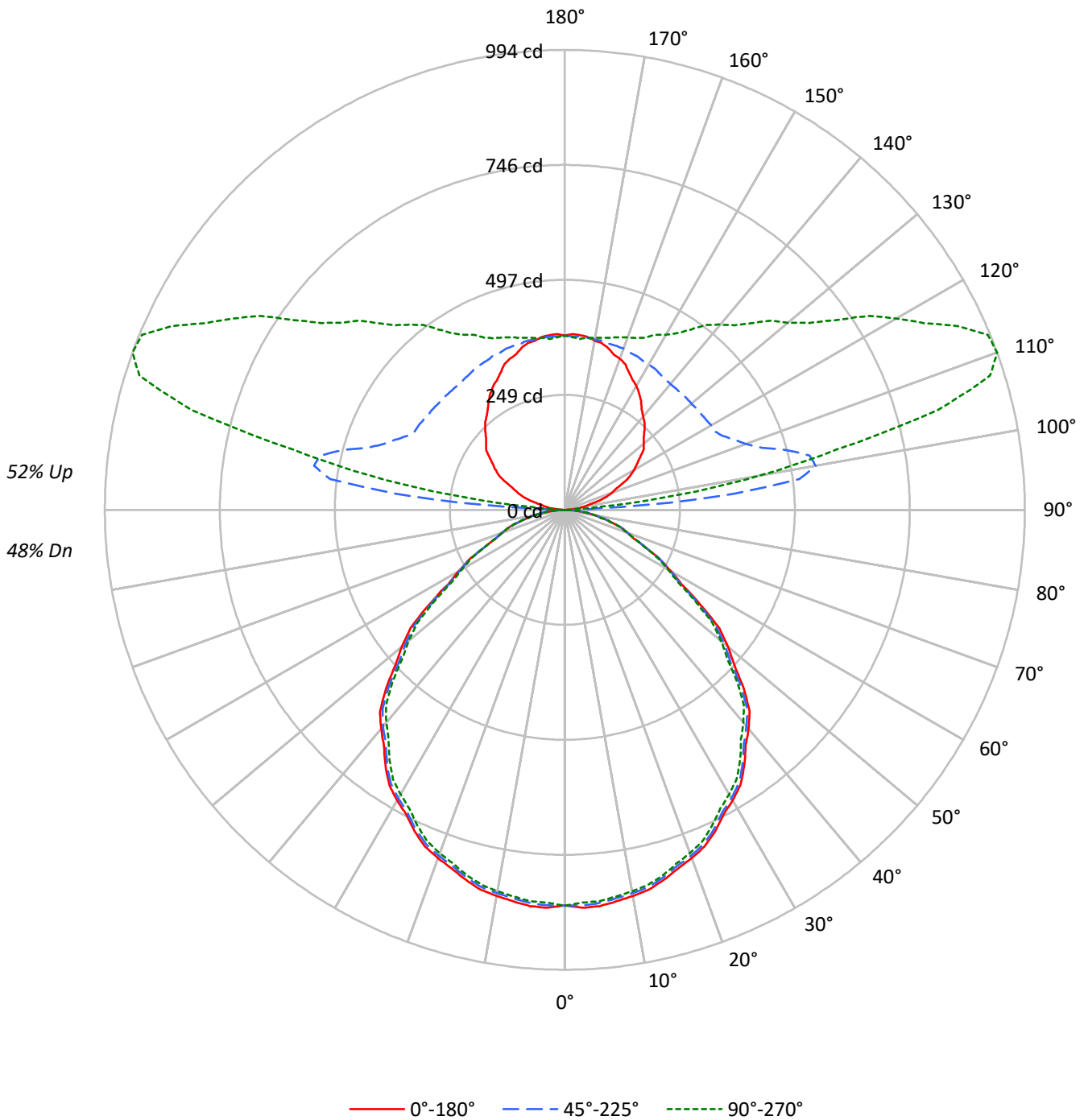
Lumens per Lamp: N/A
Luminaire Lumens: 4476.7 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.2
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				
RC	80					70					50					30				
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°	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	1.8
10°-20°	231.5	5.2
20°-30°	349.1	7.8
30°-40°	416.0	9.3
40°-50°	410.1	9.2
50°-60°	313.4	7.0
60°-70°	194.0	4.3
70°-80°	110.2	2.5
80°-90°	33.5	0.7
90°-100°	171.5	3.8
100°-110°	488.0	10.9
110°-120°	467.6	10.4
120°-130°	370.1	8.3
130°-140°	297.0	6.6
140°-150°	232.5	5.2
150°-160°	170.1	3.8
160°-170°	105.4	2.4
170°-180°	35.8	0.8
0°-30°	661.5	14.8
0°-40°	1077.5	24.1
0°-60°	1801.0	40.2
0°-90°	2138.7	47.8
90°-120°	1127.1	25.2
90°-150°	2026.7	45.3
90°-180°	2338.0	52.2
0°-180°	4476.7	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°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	

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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°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)