

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: P562677

Luminaire Tested: **SQ4-PC3-050U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562677
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20733.8 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

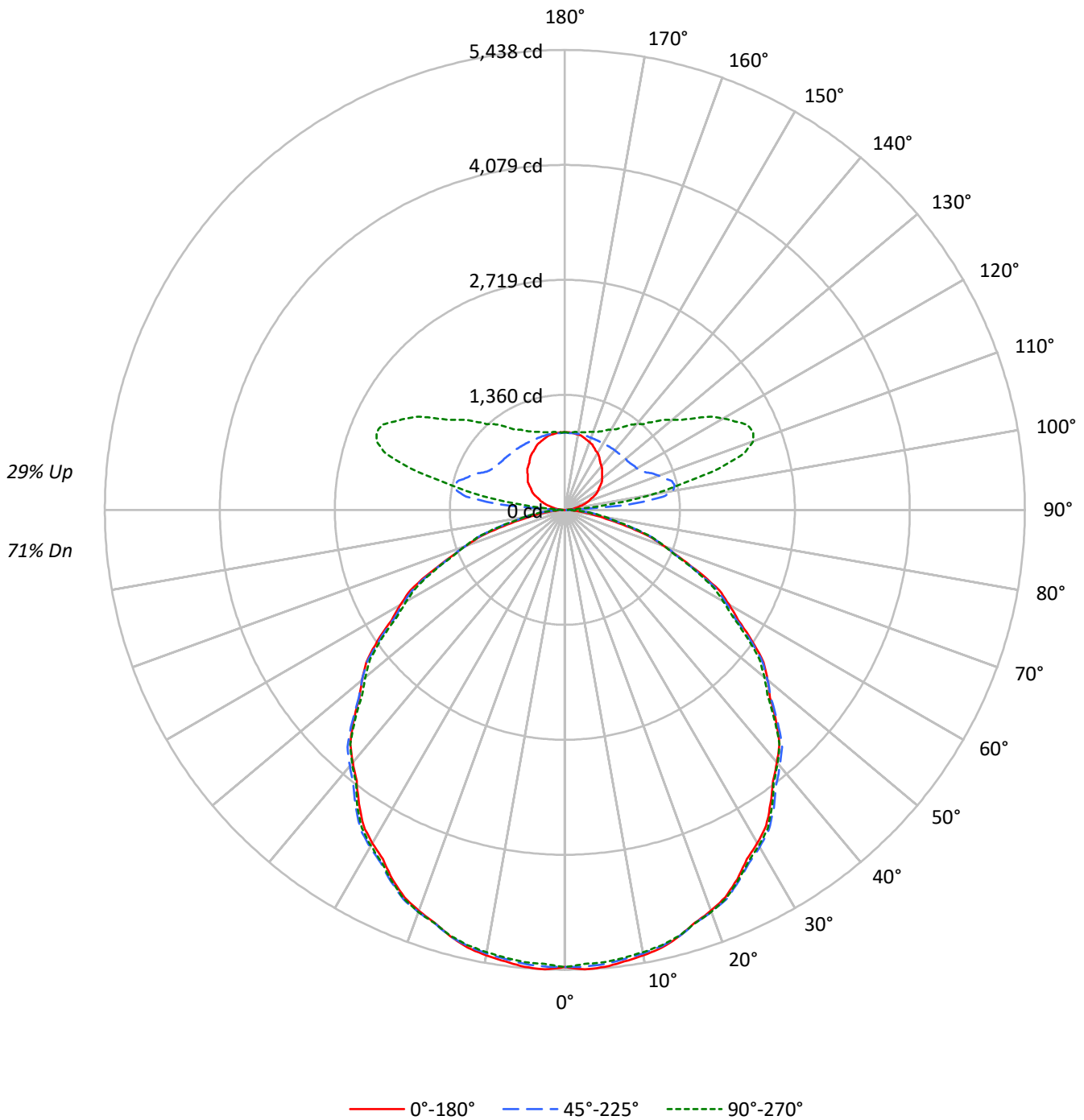
Input Watts (W): 167
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16626	16626	16626
5°	16751	16643	16582
10°	16711	16633	16586
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16477	16425
30°	16159	16354	16283
35°	15918	16162	16050
40°	15655	15876	15715
45°	15370	15479	15240
50°	14969	14969	14729
55°	14493	14306	14091
60°	13794	13516	13301
65°	12749	12495	12385
70°	11163	11252	11207
75°	8982	9934	9993
80°	6383	8421	8512
85°	3885	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	2.5
10°-20°	1468.3	7.1
20°-30°	2223.5	10.7
30°-40°	2665.7	12.9
40°-50°	2718.1	13.1
50°-60°	2372.7	11.4
60°-70°	1698.6	8.2
70°-80°	874.9	4.2
80°-90°	224.7	1.1
90°-100°	439.4	2.1
100°-110°	1193.5	5.8
110°-120°	1227.1	5.9
120°-130°	981.1	4.7
130°-140°	770.9	3.7
140°-150°	591.1	2.9
150°-160°	425.1	2.1
160°-170°	260.0	1.3
170°-180°	87.6	0.4
0°-30°	4203.4	20.3
0°-40°	6869.0	33.1
0°-60°	11959.8	57.7
0°-90°	14758.1	71.2
90°-120°	2860.0	13.8
90°-150°	5203.1	25.1
90°-180°	5976.0	28.8
0°-180°	20733.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5406	5406	5406	5406	5406	
5°	5426	5372	5391	5376	5371	515
15°	5221	5177	5221	5221	5216	1472
25°	4820	4786	4856	4840	4840	2218
35°	4240	4230	4305	4275	4275	2652
45°	3534	3524	3559	3514	3504	2720
55°	2703	2669	2668	2628	2628	2410
65°	1752	1713	1717	1702	1702	1733
75°	756	790	836	841	841	817
85°	110	169	200	205	200	150
90°	3	12	21	26	26	9
95°	65	240	765	333	224	69
105°	212	330	1312	1998	1880	225
115°	377	457	1051	2090	2381	372
125°	518	590	950	1602	1889	462
135°	624	693	924	1304	1471	482
145°	721	773	912	1108	1192	453
155°	815	844	906	995	1024	376
165°	883	894	909	948	950	249
175°	915	918	912	924	921	87
180°	915	915	915	915	915	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5406.2	5406.2	5406.2	5406.2	5406.2
2.5°	5438.2	5391.2	5406.2	5393.7	5374.2
5°	5426.2	5372.4	5391.2	5376.0	5371.2
7.5°	5387.2	5333.3	5358.1	5348.0	5343.1
10°	5351.1	5297.3	5326.1	5316.0	5311.1
12.5°	5303.1	5253.2	5286.1	5276.0	5275.0
15°	5221.0	5176.9	5221.0	5220.9	5216.0
17.5°	5117.9	5077.7	5124.9	5127.8	5124.9
20°	5045.8	5001.7	5060.8	5055.9	5060.8
22.5°	4957.7	4921.5	4984.7	4971.8	4976.7
25°	4820.5	4786.3	4855.6	4840.5	4840.5
27.5°	4658.3	4633.9	4709.4	4693.4	4693.4
30°	4550.2	4525.7	4605.3	4585.3	4585.3
32.5°	4430.1	4413.4	4489.1	4465.1	4465.1
35°	4239.9	4230.1	4304.9	4274.9	4274.9
37.5°	4043.6	4034.8	4102.7	4066.4	4054.6
40°	3899.5	3894.6	3954.5	3914.5	3914.5
42.5°	3755.3	3750.4	3802.4	3754.3	3754.3
45°	3534.0	3524.3	3559.1	3513.8	3504.0
47.5°	3292.8	3283.0	3304.8	3255.6	3250.7
50°	3128.6	3118.8	3128.6	3083.4	3078.5
52.5°	2960.4	2942.8	2944.4	2899.3	2898.3
55°	2703.1	2668.8	2668.1	2628.0	2628.0
57.5°	2430.8	2385.8	2389.7	2355.6	2350.7
60°	2242.6	2193.6	2197.5	2167.4	2162.5
62.5°	2058.4	2001.6	2013.3	1979.2	1978.3
65°	1752.0	1712.9	1717.0	1701.9	1701.9
67.5°	1457.7	1421.5	1447.7	1435.6	1434.6
70°	1241.4	1216.9	1251.4	1251.3	1246.4
72.5°	1041.2	1040.2	1083.2	1083.3	1086.2
75°	755.9	790.1	836.0	841.0	841.0
77.5°	504.6	565.3	615.7	617.7	616.7
80°	360.4	428.9	475.5	485.4	480.6
82.5°	244.3	316.7	355.4	365.3	360.4
85°	110.1	168.9	200.2	205.1	200.2
87.5°	32.6	69.6	84.2	85.2	77.4
90°	2.9	11.6	20.6	26.5	26.5
92.5°	26.5	120.3	208.9	89.7	75.9
95°	64.7	240.3	765.1	333.0	223.7
97.5°	107.1	265.4	1173.0	912.6	641.0
100°	135.4	282.1	1297.8	1315.6	1062.4
102.5°	163.6	298.9	1330.8	1627.0	1403.7
105°	211.9	329.9	1312.5	1998.4	1880.5
107.5°	261.9	366.1	1236.6	2190.2	2223.0
110°	297.2	392.2	1180.1	2228.0	2369.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.8	418.2	1123.6	2196.7	2409.0
115°	376.7	457.3	1050.6	2090.1	2380.8
117.5°	422.6	499.7	1004.1	1939.1	2266.6
120°	453.2	528.0	982.9	1837.8	2163.0
122.5°	479.1	553.9	968.8	1736.3	2050.0
125°	517.9	589.9	950.5	1601.6	1889.3
127.5°	552.7	624.0	940.5	1499.4	1746.3
130°	573.9	642.9	935.8	1435.3	1656.8
132.5°	595.0	664.1	931.1	1380.5	1576.8
135°	623.9	692.9	924.1	1304.5	1471.4
137.5°	655.1	717.8	920.5	1237.4	1377.8
140°	673.9	734.3	918.2	1194.7	1321.3
142.5°	692.7	748.6	915.8	1161.3	1267.2
145°	721.0	772.8	912.3	1108.4	1191.8
147.5°	752.8	797.1	909.3	1066.8	1132.4
150°	774.0	811.4	909.3	1042.9	1094.7
152.5°	790.4	823.2	907.0	1021.5	1064.1
155°	815.2	843.9	906.4	995.3	1024.1
157.5°	839.3	861.7	906.4	977.5	999.4
160°	853.4	873.6	906.4	965.6	982.9
162.5°	867.5	883.1	908.7	956.1	968.8
165°	882.9	894.4	909.3	947.7	950.5
167.5°	898.7	904.5	912.3	937.6	939.9
170°	903.5	909.2	912.3	932.9	932.9
172.5°	908.2	911.6	912.3	928.2	928.2
175°	915.2	918.1	912.3	924.0	921.1
177.5°	917.6	917.6	910.5	919.8	915.2
180°	915.2	915.2	915.2	915.2	915.2

(END OF REPORT)