

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: P562869

Luminaire Tested: **SQ4-PC3-0U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562869
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

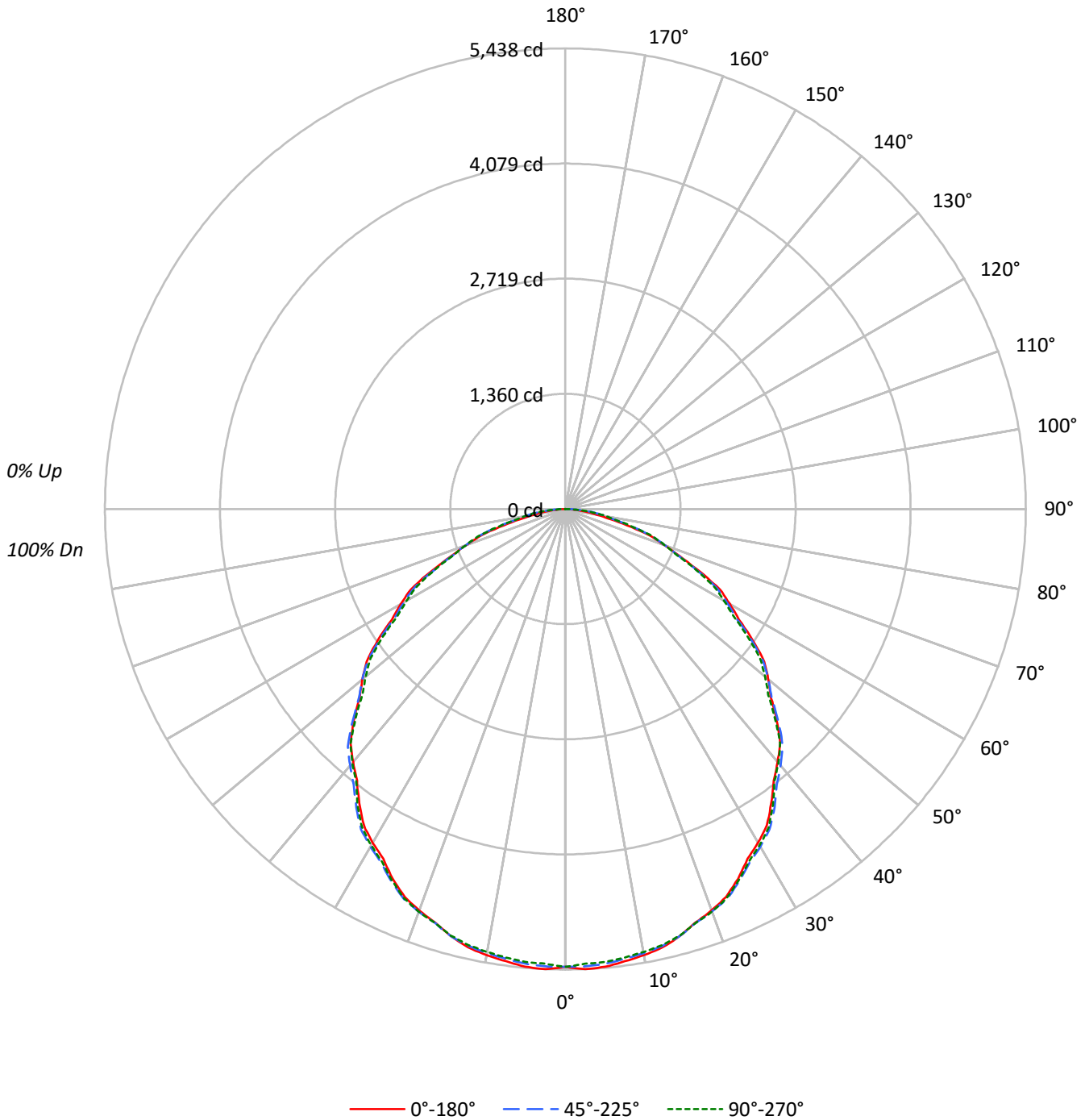
Lumens per Lamp: N/A
Luminaire Lumens: 14754.5 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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



TEST NUMBER: P562869
CATALOG NUMBER: SQ4-PC3-0U-125D-835-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P562869

CATALOG NUMBER: SQ4-PC3-0U-125D-835-1D-UNV-STD-W-12

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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



TEST NUMBER: P562869

CATALOG NUMBER: SQ4-PC3-0U-125D-835-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	3.5
10°-20°	1468.3	10.0
20°-30°	2223.5	15.1
30°-40°	2665.7	18.1
40°-50°	2718.1	18.4
50°-60°	2372.7	16.1
60°-70°	1698.6	11.5
70°-80°	874.9	5.9
80°-90°	221.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4203.4	28.5
0°-40°	6869.0	46.6
0°-60°	11959.8	81.1
0°-90°	14754.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14754.5	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	154
90°	0	0	0	0	0	



TEST NUMBER: P562869

CATALOG NUMBER: SQ4-PC3-OU-125D-835-1D-UNV-STD-W-12

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°	32.0	67.3	80.1	79.9	72.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)