

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: P562885

Luminaire Tested: **SQ4-PC3-0U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562885
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

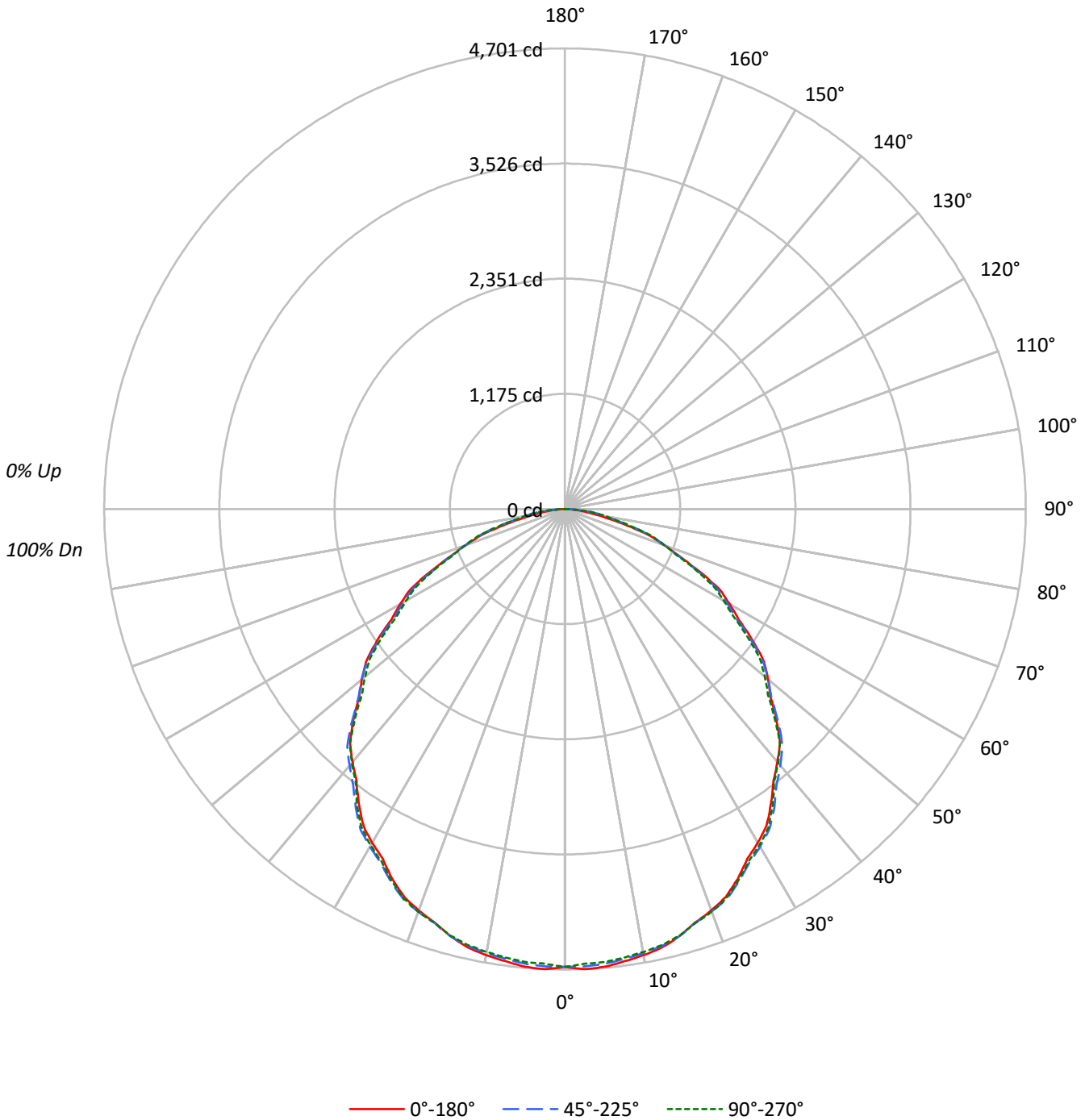
Lumens per Lamp: N/A
Luminaire Lumens: 12755.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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



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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	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°	14373	14373	14373
5°	14482	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14243	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13533	13724	13586
45°	13287	13382	13175
50°	12940	12940	12733
55°	12529	12367	12181
60°	11925	11685	11498
65°	11022	10801	10707
70°	9650	9727	9689
75°	7764	8587	8639
80°	5519	7281	7357
85°	3359	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	3.5
10°-20°	1269.3	10.0
20°-30°	1922.2	15.1
30°-40°	2304.4	18.1
40°-50°	2349.7	18.4
50°-60°	2051.2	16.1
60°-70°	1468.4	11.5
70°-80°	756.3	5.9
80°-90°	191.3	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°	3633.7	28.5
0°-40°	5938.1	46.6
0°-60°	10339.0	81.1
0°-90°	12755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4674	4674	4674	4674	4674	
5°	4691	4644	4661	4648	4643	445
15°	4513	4475	4513	4513	4509	1273
25°	4167	4138	4198	4185	4185	1918
35°	3665	3657	3722	3696	3696	2292
45°	3055	3047	3077	3038	3029	2352
55°	2337	2307	2306	2272	2272	2083
65°	1515	1481	1484	1471	1471	1498
75°	653	683	723	727	727	706
85°	95	146	173	177	173	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4673.6	4673.6	4673.6	4673.6	4673.6
2.5°	4701.2	4660.6	4673.6	4662.8	4645.9
5°	4690.9	4644.3	4660.6	4647.5	4643.3
7.5°	4657.1	4610.6	4632.0	4623.3	4619.0
10°	4625.9	4579.4	4604.3	4595.6	4591.3
12.5°	4584.4	4541.2	4569.7	4561.0	4560.2
15°	4513.4	4475.4	4513.4	4513.3	4509.1
17.5°	4424.3	4389.6	4430.4	4432.9	4430.4
20°	4362.0	4323.9	4375.0	4370.7	4375.0
22.5°	4285.8	4254.5	4309.2	4298.0	4302.3
25°	4167.2	4137.6	4197.5	4184.6	4184.6
27.5°	4027.0	4005.9	4071.2	4057.3	4057.3
30°	3933.6	3912.4	3981.2	3963.9	3963.9
32.5°	3829.7	3815.3	3880.8	3860.0	3860.0
35°	3665.3	3656.8	3721.5	3695.6	3695.6
37.5°	3495.6	3488.0	3546.7	3515.3	3505.2
40°	3371.0	3366.8	3418.6	3384.0	3384.0
42.5°	3246.4	3242.2	3287.1	3245.5	3245.5
45°	3055.1	3046.7	3076.8	3037.6	3029.2
47.5°	2846.5	2838.1	2856.9	2814.4	2810.2
50°	2704.6	2696.1	2704.6	2665.6	2661.3
52.5°	2559.2	2544.0	2545.4	2506.4	2505.5
55°	2336.8	2307.2	2306.5	2271.9	2271.9
57.5°	2101.4	2062.4	2065.9	2036.4	2032.1
60°	1938.7	1896.3	1899.7	1873.7	1869.4
62.5°	1779.4	1730.3	1740.5	1711.0	1710.2
65°	1514.6	1480.7	1484.3	1471.3	1471.3
67.5°	1260.1	1228.8	1251.5	1241.1	1240.2
70°	1073.2	1052.0	1081.8	1081.7	1077.5
72.5°	900.1	899.2	936.4	936.5	939.0
75°	653.4	683.0	722.7	727.0	727.0
77.5°	436.2	488.7	532.3	534.0	533.1
80°	311.6	370.8	411.1	419.7	415.4
82.5°	211.2	273.8	307.2	315.8	311.6
85°	95.2	146.0	173.1	177.3	173.1
87.5°	27.7	58.2	69.2	69.1	62.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)