

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: P563545

Luminaire Tested: **SQ4-PP3-0U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563545
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

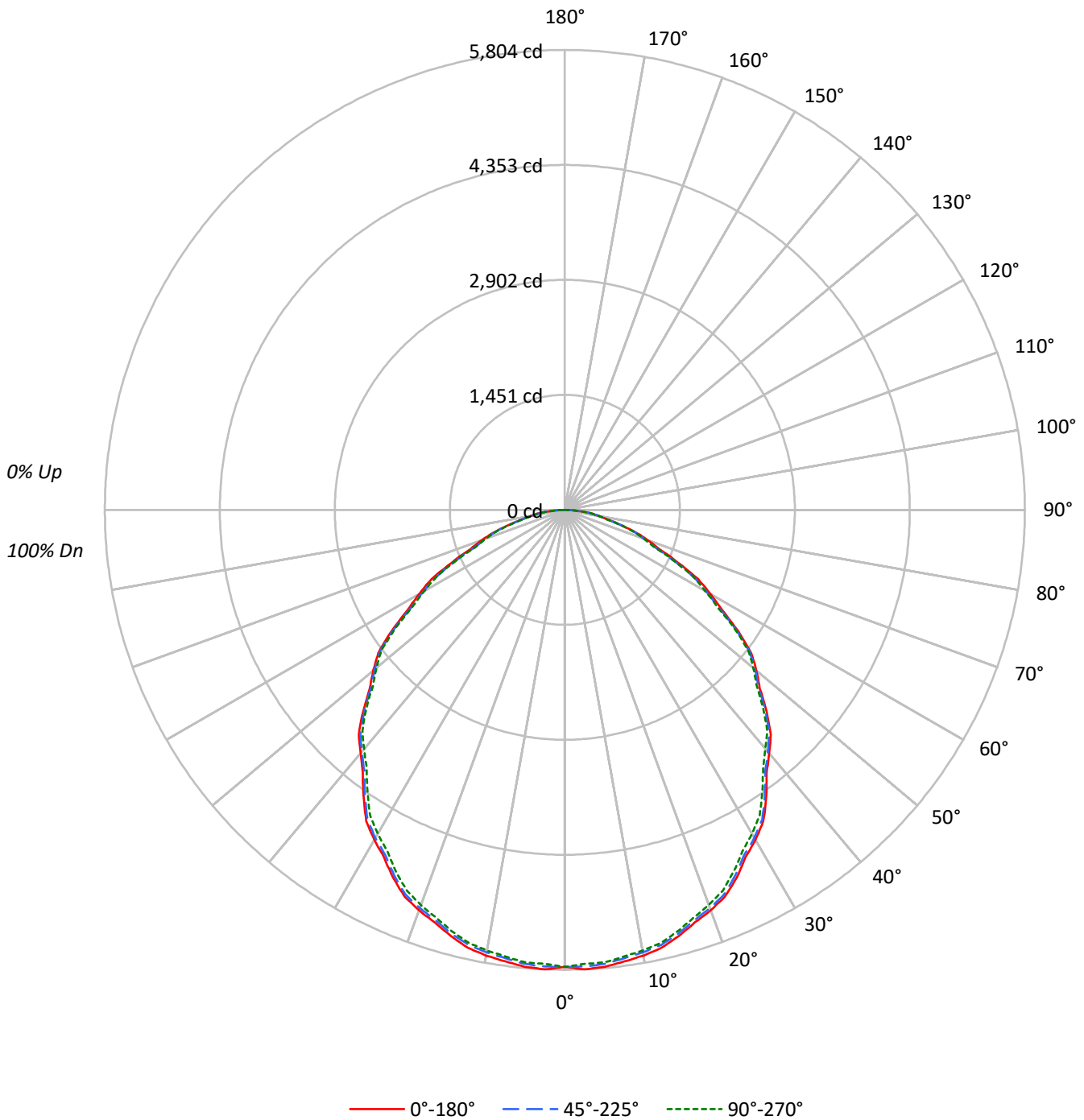
Lumens per Lamp: N/A
Luminaire Lumens: 14762.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16981	16766
35°	16625	16511	16302
40°	16093	15992	15809
45°	15653	15543	15389
50°	15092	14995	14850
55°	14311	14121	14013
60°	13027	12654	12592
65°	11477	10998	10962
70°	9909	9500	9500
75°	8529	8409	8289
80°	7520	7610	7431
85°	5886	6422	6422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.4	3.7
10°-20°	1557.3	10.5
20°-30°	2332.6	15.8
30°-40°	2736.0	18.5
40°-50°	2744.5	18.6
50°-60°	2341.3	15.9
60°-70°	1526.9	10.3
70°-80°	766.1	5.2
80°-90°	212.0	1.4
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°	4435.2	30.0
0°-40°	7171.2	48.6
0°-60°	12257.0	83.0
0°-90°	14762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5768	5768	5768	5768	5768	
5°	5788	5734	5752	5732	5732	550
15°	5566	5511	5535	5515	5505	1570
25°	5126	5066	5090	5045	5040	2357
35°	4428	4384	4398	4347	4342	2766
45°	3599	3574	3574	3538	3538	2771
55°	2669	2659	2634	2618	2613	2372
65°	1577	1548	1511	1501	1506	1574
75°	718	718	708	702	698	779
85°	167	182	182	182	182	202
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	5804.0	5756.6	5767.7	5759.0	5735.3
5°	5787.9	5733.5	5752.5	5732.3	5732.3
7.5°	5748.4	5689.1	5708.0	5687.8	5686.8
10°	5712.0	5652.7	5671.6	5651.3	5646.3
12.5°	5659.5	5600.2	5623.1	5598.8	5597.8
15°	5565.5	5511.1	5535.1	5514.7	5504.8
17.5°	5459.3	5400.0	5429.0	5400.6	5396.6
20°	5378.4	5319.1	5348.1	5307.7	5307.7
22.5°	5281.4	5222.1	5255.1	5202.5	5202.5
25°	5125.7	5066.4	5090.3	5044.7	5039.7
27.5°	4940.7	4882.3	4907.3	4855.7	4854.7
30°	4807.2	4752.8	4781.9	4726.2	4721.3
32.5°	4661.6	4611.2	4632.3	4576.6	4571.7
35°	4428.1	4383.6	4397.8	4347.1	4342.2
37.5°	4182.4	4137.0	4153.1	4109.6	4107.6
40°	4008.5	3978.9	3983.3	3947.7	3937.8
42.5°	3846.8	3813.2	3817.5	3782.0	3780.1
45°	3599.1	3574.4	3573.8	3538.4	3538.4
47.5°	3336.2	3317.5	3312.0	3282.6	3281.6
50°	3154.3	3139.4	3134.0	3108.7	3103.7
52.5°	2964.2	2957.3	2939.9	2918.7	2917.7
55°	2669.0	2659.1	2633.6	2618.3	2613.4
57.5°	2348.5	2328.7	2300.0	2277.8	2281.8
60°	2118.0	2098.2	2057.3	2047.2	2047.2
62.5°	1895.6	1871.9	1830.9	1816.9	1824.8
65°	1577.1	1547.5	1511.4	1501.4	1506.4
67.5°	1288.0	1261.3	1222.3	1222.2	1218.2
70°	1102.0	1087.1	1056.5	1056.5	1056.5
72.5°	936.2	929.2	906.9	906.8	902.8
75°	717.8	717.8	707.7	702.5	697.6
77.5°	537.8	539.8	534.8	529.6	520.7
80°	424.6	434.5	429.7	424.5	419.6
82.5°	319.5	329.4	328.6	319.4	318.5
85°	166.8	181.6	182.0	182.0	182.0
87.5°	44.5	60.3	64.7	64.8	68.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)