

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: P563541

Luminaire Tested: **SQ4-PP3-0U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563541
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

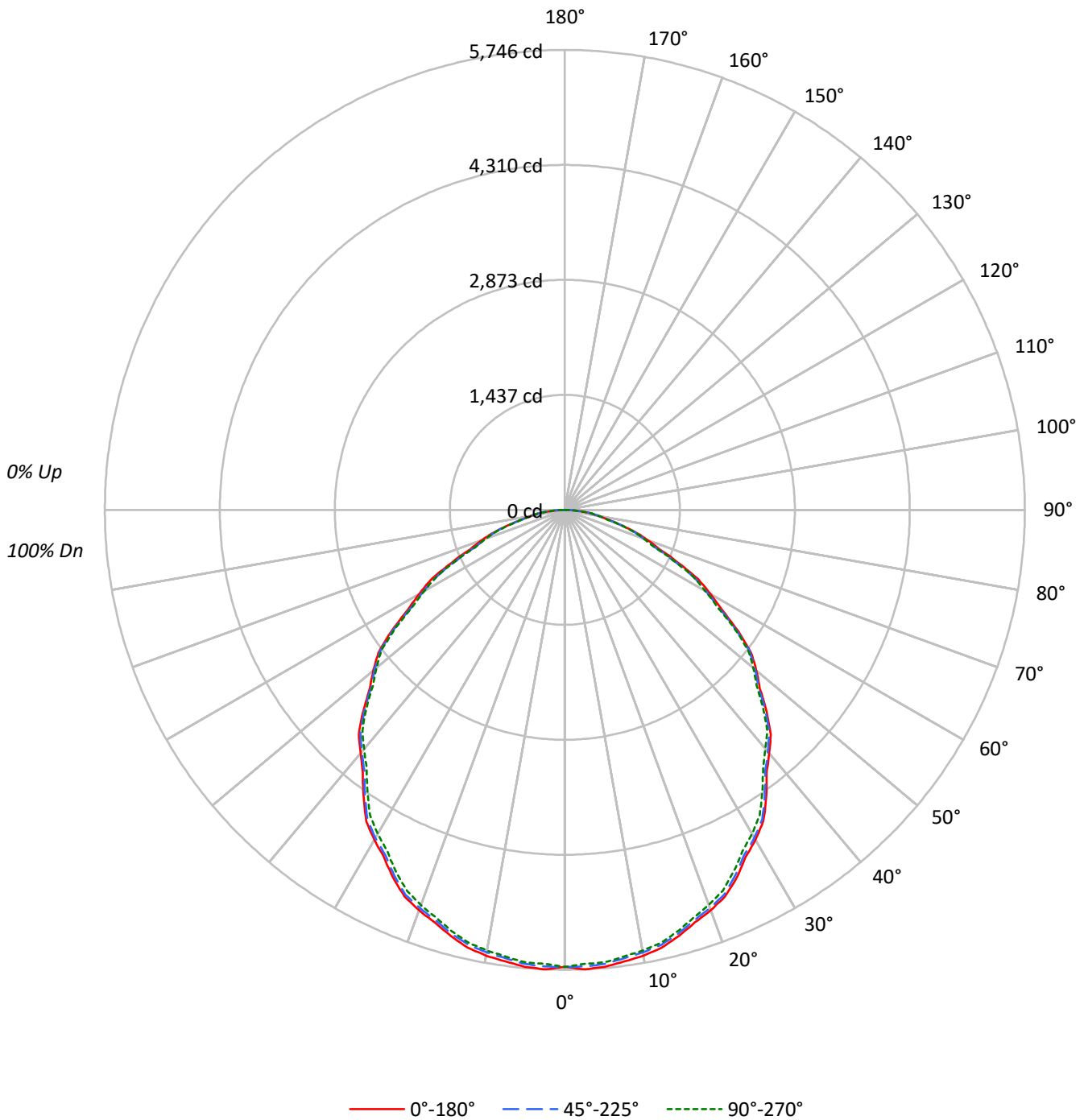
Lumens per Lamp: N/A
Luminaire Lumens: 14614.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: SQ4-PP3-OU-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16347	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12529	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.0	3.7
10°-20°	1541.7	10.5
20°-30°	2309.3	15.8
30°-40°	2708.7	18.5
40°-50°	2717.2	18.6
50°-60°	2318.0	15.9
60°-70°	1511.7	10.3
70°-80°	758.4	5.2
80°-90°	209.9	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°	4391.0	30.0
0°-40°	7099.7	48.6
0°-60°	12134.9	83.0
0°-90°	14614.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14614.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5710	5710	5710	5710	5710	
5°	5730	5676	5695	5675	5675	544
15°	5510	5456	5480	5460	5450	1554
25°	5075	5016	5040	4994	4990	2333
35°	4384	4340	4354	4304	4299	2739
45°	3563	3539	3538	3503	3503	2744
55°	2642	2633	2607	2592	2587	2348
65°	1561	1532	1496	1486	1491	1558
75°	711	711	701	696	691	771
85°	165	180	180	180	180	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5710.2	5710.2	5710.2	5710.2	5710.2
2.5°	5746.2	5699.2	5710.2	5701.6	5678.2
5°	5730.2	5676.4	5695.2	5675.2	5675.2
7.5°	5691.2	5632.5	5651.1	5631.1	5630.1
10°	5655.1	5596.4	5615.1	5595.0	5590.1
12.5°	5603.1	5544.4	5567.1	5543.0	5542.0
15°	5510.0	5456.2	5480.0	5459.7	5450.0
17.5°	5404.9	5346.2	5374.9	5346.8	5342.9
20°	5324.8	5266.1	5294.8	5254.8	5254.8
22.5°	5228.8	5170.0	5202.7	5150.7	5150.7
25°	5074.6	5015.9	5039.6	4994.4	4989.5
27.5°	4891.4	4833.7	4858.4	4807.3	4806.4
30°	4759.3	4705.5	4734.3	4679.1	4674.2
32.5°	4615.2	4565.3	4586.2	4531.0	4526.1
35°	4384.0	4339.9	4354.0	4303.8	4298.9
37.5°	4140.8	4095.7	4111.7	4068.7	4066.7
40°	3968.6	3939.2	3943.6	3908.3	3898.5
42.5°	3808.5	3775.2	3779.4	3744.4	3742.4
45°	3563.2	3538.8	3538.2	3503.2	3503.2
47.5°	3303.0	3284.4	3279.0	3249.9	3249.0
50°	3122.8	3108.2	3102.8	3077.7	3072.8
52.5°	2934.7	2927.8	2910.6	2889.6	2888.6
55°	2642.4	2632.6	2607.4	2592.2	2587.4
57.5°	2325.1	2305.5	2277.1	2255.1	2259.1
60°	2096.9	2077.3	2036.9	2026.8	2026.8
62.5°	1876.7	1853.2	1812.6	1798.8	1806.6
65°	1561.4	1532.1	1496.4	1486.5	1491.4
67.5°	1275.2	1248.7	1210.1	1210.0	1206.1
70°	1091.0	1076.3	1046.0	1046.0	1046.0
72.5°	926.8	920.0	897.8	897.7	893.8
75°	710.6	710.6	700.6	695.5	690.6
77.5°	532.5	534.4	529.5	524.3	515.5
80°	420.4	430.2	425.4	420.3	415.4
82.5°	316.3	326.1	325.3	316.3	315.3
85°	165.2	179.8	180.2	180.2	180.2
87.5°	44.0	59.7	64.1	64.1	68.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)