

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: P563548

Luminaire Tested: **SQ4-PP3-0U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563548
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-8
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

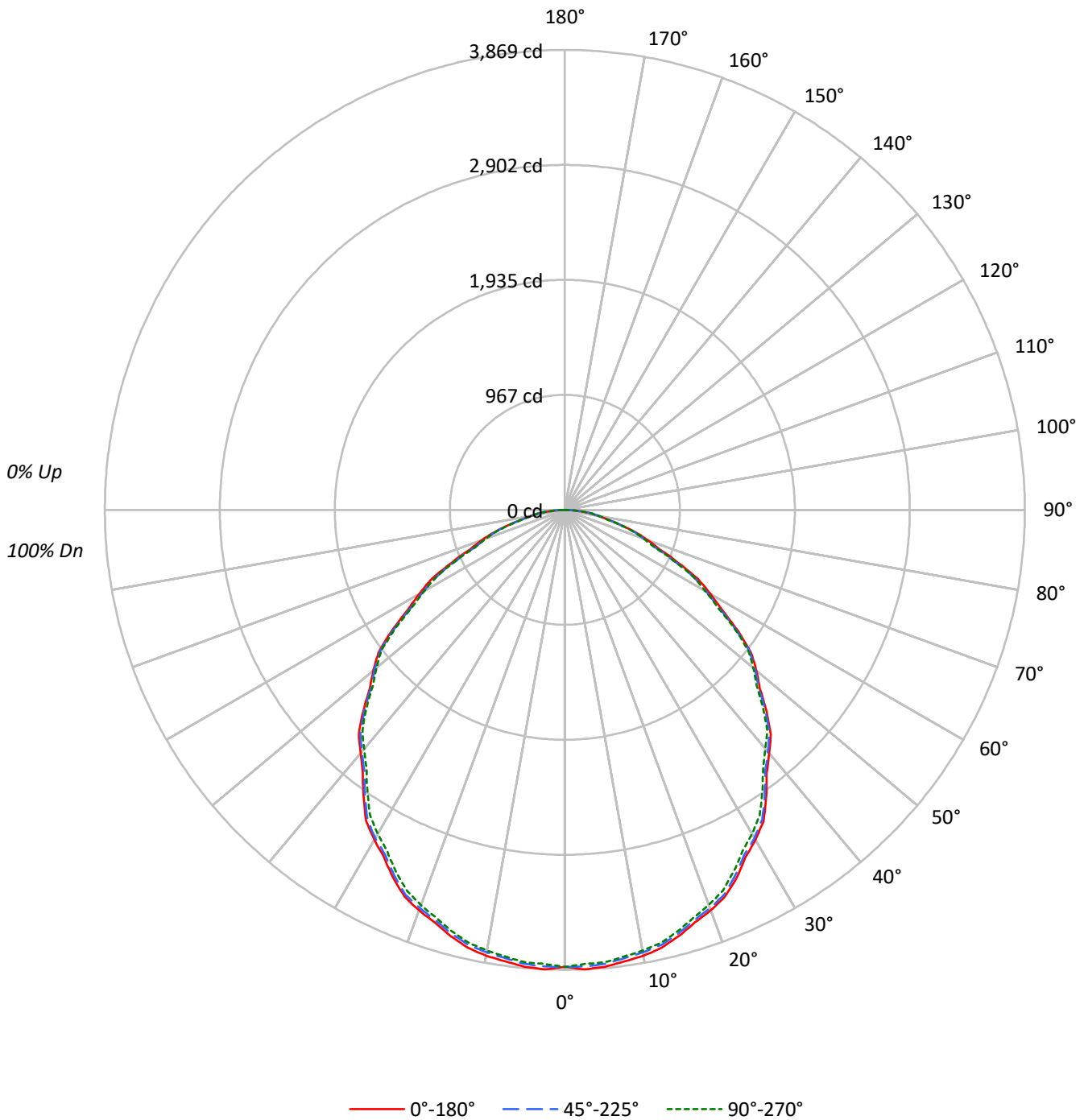
Lumens per Lamp: N/A
Luminaire Lumens: 9841.3 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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	16982	16766
35°	16625	16511	16302
40°	16093	15991	15809
45°	15653	15543	15390
50°	15091	14995	14849
55°	14310	14121	14013
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9499	9499
75°	8529	8409	8290
80°	7521	7608	7430
85°	5886	6420	6420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	3.7
10°-20°	1038.2	10.5
20°-30°	1555.0	15.8
30°-40°	1824.0	18.5
40°-50°	1829.7	18.6
50°-60°	1560.9	15.9
60°-70°	1018.0	10.3
70°-80°	510.7	5.2
80°-90°	141.3	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°	2956.8	30.0
0°-40°	4780.8	48.6
0°-60°	8171.3	83.0
0°-90°	9841.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9841.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3845	3845	3845	3845	3845	
5°	3859	3822	3835	3822	3822	366
15°	3710	3674	3690	3676	3670	1047
25°	3417	3378	3394	3363	3360	1571
35°	2952	2922	2932	2898	2895	1844
45°	2399	2383	2382	2359	2359	1847
55°	1779	1773	1756	1746	1742	1581
65°	1051	1032	1008	1001	1004	1049
75°	478	478	472	468	465	519
85°	111	121	121	121	121	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3869.4	3837.7	3845.1	3839.3	3823.5
5°	3858.6	3822.3	3835.0	3821.5	3821.5
7.5°	3832.3	3792.8	3805.3	3791.8	3791.2
10°	3808.0	3768.5	3781.1	3767.5	3764.2
12.5°	3773.0	3733.4	3748.7	3732.5	3731.9
15°	3710.3	3674.1	3690.1	3676.5	3669.9
17.5°	3639.5	3600.0	3619.3	3600.4	3597.7
20°	3585.6	3546.1	3565.4	3538.4	3538.4
22.5°	3520.9	3481.4	3503.4	3468.3	3468.3
25°	3417.1	3377.6	3393.5	3363.1	3359.8
27.5°	3293.8	3254.9	3271.5	3237.1	3236.5
30°	3204.8	3168.6	3188.0	3150.8	3147.5
32.5°	3107.8	3074.1	3088.2	3051.1	3047.8
35°	2952.1	2922.4	2931.8	2898.1	2894.8
37.5°	2788.3	2758.0	2768.7	2739.7	2738.4
40°	2672.4	2652.6	2655.5	2631.8	2625.2
42.5°	2564.5	2542.1	2545.0	2521.4	2520.0
45°	2399.4	2382.9	2382.5	2359.0	2359.0
47.5°	2224.2	2211.6	2208.0	2188.4	2187.8
50°	2102.8	2093.0	2089.4	2072.4	2069.1
52.5°	1976.1	1971.5	1960.0	1945.8	1945.1
55°	1779.3	1772.7	1755.7	1745.6	1742.3
57.5°	1565.7	1552.5	1533.3	1518.6	1521.2
60°	1412.0	1398.8	1371.6	1364.8	1364.8
62.5°	1263.7	1247.9	1220.6	1211.3	1216.5
65°	1051.4	1031.7	1007.6	1000.9	1004.2
67.5°	858.7	840.9	814.9	814.8	812.2
70°	734.6	724.8	704.3	704.3	704.3
72.5°	624.1	619.5	604.6	604.5	601.9
75°	478.5	478.5	471.8	468.3	465.1
77.5°	358.6	359.9	356.5	353.0	347.1
80°	283.1	289.7	286.4	283.0	279.7
82.5°	213.0	219.6	219.0	213.0	212.3
85°	111.2	121.1	121.3	121.3	121.3
87.5°	29.7	40.2	43.1	43.2	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)