

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: P562872

Luminaire Tested: **SQ4-PC3-0U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562872
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-8
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

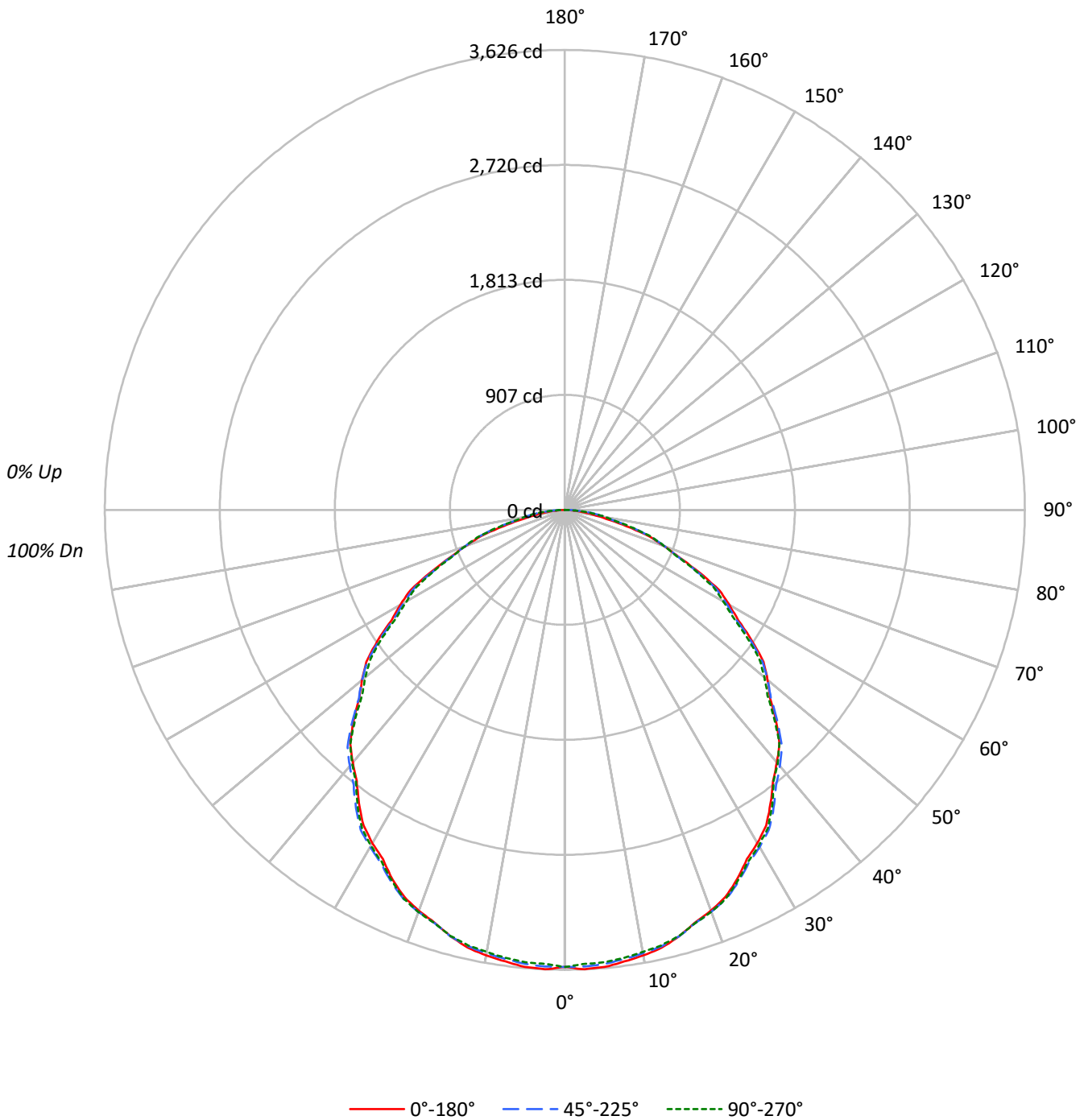
Lumens per Lamp: N/A
Luminaire Lumens: 9836.3 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	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°	16752	16643	16582
10°	16711	16632	16586
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16476	16425
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15716
45°	15370	15479	15240
50°	14968	14968	14729
55°	14494	14306	14091
60°	13793	13516	13301
65°	12749	12494	12385
70°	11163	11253	11208
75°	8981	9933	9992
80°	6384	8421	8512
85°	3885	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	3.5
10°-20°	978.8	10.0
20°-30°	1482.3	15.1
30°-40°	1777.1	18.1
40°-50°	1812.0	18.4
50°-60°	1581.8	16.1
60°-70°	1132.4	11.5
70°-80°	583.3	5.9
80°-90°	147.5	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°	2802.2	28.5
0°-40°	4579.4	46.6
0°-60°	7973.2	81.1
0°-90°	9836.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9836.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3604	3604	3604	3604	3604	
5°	3618	3582	3594	3584	3581	343
15°	3481	3451	3481	3481	3477	981
25°	3214	3191	3237	3227	3227	1479
35°	2827	2820	2870	2850	2850	1768
45°	2356	2350	2373	2342	2336	1814
55°	1802	1779	1779	1752	1752	1606
65°	1168	1142	1145	1135	1135	1155
75°	504	527	557	561	561	545
85°	73	113	134	137	134	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3604.1	3604.1	3604.1	3604.1	3604.1
2.5°	3625.5	3594.2	3604.1	3595.8	3582.8
5°	3617.5	3581.6	3594.1	3584.0	3580.8
7.5°	3591.4	3555.6	3572.1	3565.3	3562.1
10°	3567.4	3531.5	3550.7	3544.0	3540.7
12.5°	3535.4	3502.1	3524.0	3517.3	3516.7
15°	3480.7	3451.3	3480.7	3480.6	3477.3
17.5°	3411.9	3385.2	3416.6	3418.5	3416.6
20°	3363.9	3334.5	3373.9	3370.6	3373.9
22.5°	3305.1	3281.0	3323.1	3314.5	3317.8
25°	3213.7	3190.8	3237.0	3227.0	3227.0
27.5°	3105.6	3089.2	3139.6	3128.9	3128.9
30°	3033.5	3017.2	3070.2	3056.8	3056.8
32.5°	2953.4	2942.3	2992.8	2976.7	2976.7
35°	2826.6	2820.0	2870.0	2849.9	2849.9
37.5°	2695.8	2689.9	2735.1	2710.9	2703.1
40°	2599.6	2596.4	2636.4	2609.7	2609.7
42.5°	2503.5	2500.3	2534.9	2502.9	2502.9
45°	2356.0	2349.5	2372.7	2342.5	2336.0
47.5°	2195.2	2188.7	2203.2	2170.4	2167.1
50°	2085.7	2079.2	2085.7	2055.6	2052.4
52.5°	1973.6	1961.8	1962.9	1932.9	1932.2
55°	1802.1	1779.2	1778.7	1752.0	1752.0
57.5°	1620.5	1590.5	1593.2	1570.4	1567.1
60°	1495.0	1462.4	1465.0	1444.9	1441.7
62.5°	1372.2	1334.4	1342.2	1319.5	1318.8
65°	1168.0	1141.9	1144.6	1134.6	1134.6
67.5°	971.8	947.6	965.1	957.1	956.4
70°	827.6	811.3	834.3	834.2	831.0
72.5°	694.1	693.5	722.2	722.2	724.2
75°	503.9	526.8	557.3	560.6	560.6
77.5°	336.4	376.8	410.5	411.8	411.1
80°	240.3	286.0	317.0	323.6	320.4
82.5°	162.9	211.1	236.9	243.5	240.3
85°	73.4	112.6	133.5	136.7	133.5
87.5°	21.4	44.9	53.4	53.3	48.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)