

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: P562876

Luminaire Tested: **SQ4-PC3-0U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562876  
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-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

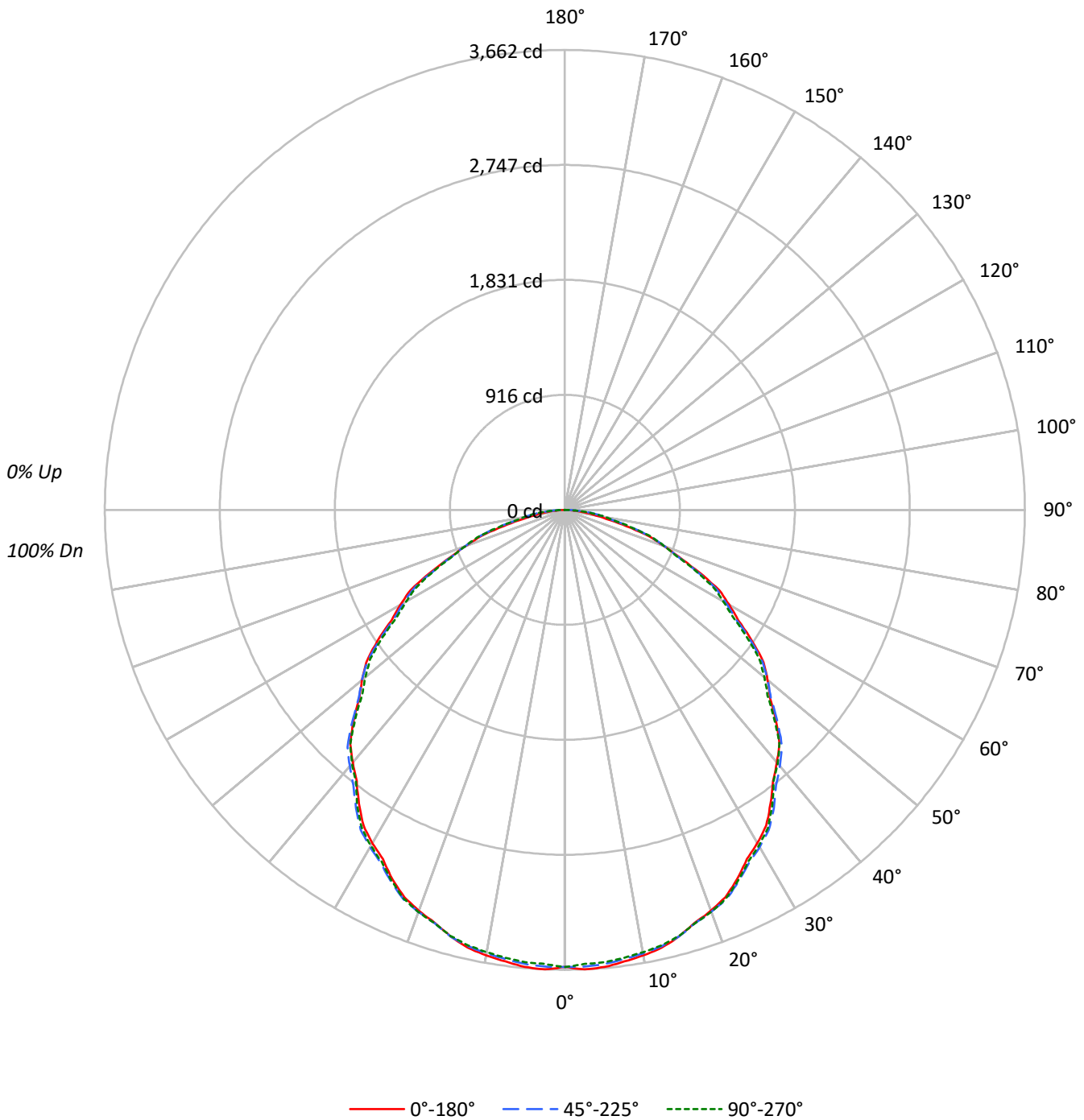
Lumens per Lamp: N/A  
Luminaire Lumens: 9935.3 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P562876  
CATALOG NUMBER: SQ4-PC3-0U-125D-840-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P562876

CATALOG NUMBER: SQ4-PC3-0U-125D-840-1D-UNV-STD-W-8

**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°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12510
70°	11274	11366	11320
75°	9072	10033	10094
80°	6448	8506	8597
85°	3927	7135	7135



TEST NUMBER: P562876

CATALOG NUMBER: SQ4-PC3-0U-125D-840-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.5	3.5
10°-20°	988.7	10.0
20°-30°	1497.2	15.1
30°-40°	1795.0	18.1
40°-50°	1830.3	18.4
50°-60°	1597.7	16.1
60°-70°	1143.8	11.5
70°-80°	589.1	5.9
80°-90°	149.0	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°	2830.4	28.5
0°-40°	4625.4	46.6
0°-60°	8053.4	81.1
0°-90°	9935.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9935.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3640	3640	3640	3640	3640	
5°	3654	3618	3630	3620	3617	347
15°	3516	3486	3516	3516	3512	991
25°	3246	3223	3270	3260	3260	1494
35°	2855	2848	2899	2879	2879	1786
45°	2380	2373	2397	2366	2360	1832
55°	1820	1797	1797	1770	1770	1623
65°	1180	1153	1156	1146	1146	1167
75°	509	532	563	566	566	550
85°	74	114	135	138	135	104
90°	0	0	0	0	0	



TEST NUMBER: P562876

CATALOG NUMBER: SQ4-PC3-0U-125D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3640.4	3640.4	3640.4	3640.4	3640.4
2.5°	3662.0	3630.3	3640.4	3632.0	3618.8
5°	3653.9	3617.6	3630.3	3620.1	3616.8
7.5°	3627.6	3591.3	3608.0	3601.2	3597.9
10°	3603.3	3567.1	3586.5	3579.6	3576.4
12.5°	3571.0	3537.3	3559.5	3552.7	3552.1
15°	3515.7	3486.0	3515.7	3515.6	3512.3
17.5°	3446.2	3419.2	3451.0	3452.9	3451.0
20°	3397.7	3368.0	3407.8	3404.5	3407.8
22.5°	3338.4	3314.0	3356.6	3347.9	3351.2
25°	3246.0	3222.9	3269.6	3259.5	3259.5
27.5°	3136.8	3120.3	3171.2	3160.4	3160.4
30°	3064.0	3047.5	3101.1	3087.6	3087.6
32.5°	2983.1	2971.9	3022.9	3006.7	3006.7
35°	2855.0	2848.4	2898.8	2878.6	2878.6
37.5°	2722.9	2716.9	2762.7	2738.2	2730.3
40°	2625.8	2622.5	2662.9	2635.9	2635.9
42.5°	2528.7	2525.4	2560.4	2528.1	2528.1
45°	2379.7	2373.1	2396.6	2366.1	2359.5
47.5°	2217.3	2210.7	2225.4	2192.3	2189.0
50°	2106.7	2100.1	2106.7	2076.3	2073.0
52.5°	1993.5	1981.6	1982.7	1952.3	1951.7
55°	1820.2	1797.1	1796.6	1769.6	1769.6
57.5°	1636.8	1606.5	1609.2	1586.2	1582.9
60°	1510.1	1477.1	1479.8	1459.5	1456.2
62.5°	1386.0	1347.8	1355.7	1332.8	1332.1
65°	1179.8	1153.4	1156.2	1146.1	1146.1
67.5°	981.6	957.2	974.8	966.7	966.1
70°	835.9	819.5	842.7	842.6	839.3
72.5°	701.1	700.5	729.4	729.5	731.4
75°	509.0	532.1	562.9	566.3	566.3
77.5°	339.8	380.6	414.6	415.9	415.3
80°	242.7	288.8	320.2	326.9	323.6
82.5°	164.5	213.3	239.3	246.0	242.7
85°	74.2	113.7	134.8	138.1	134.8
87.5°	21.6	45.3	53.9	53.8	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)