

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: P562880

Luminaire Tested: **SQ4-PC3-0U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562880
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

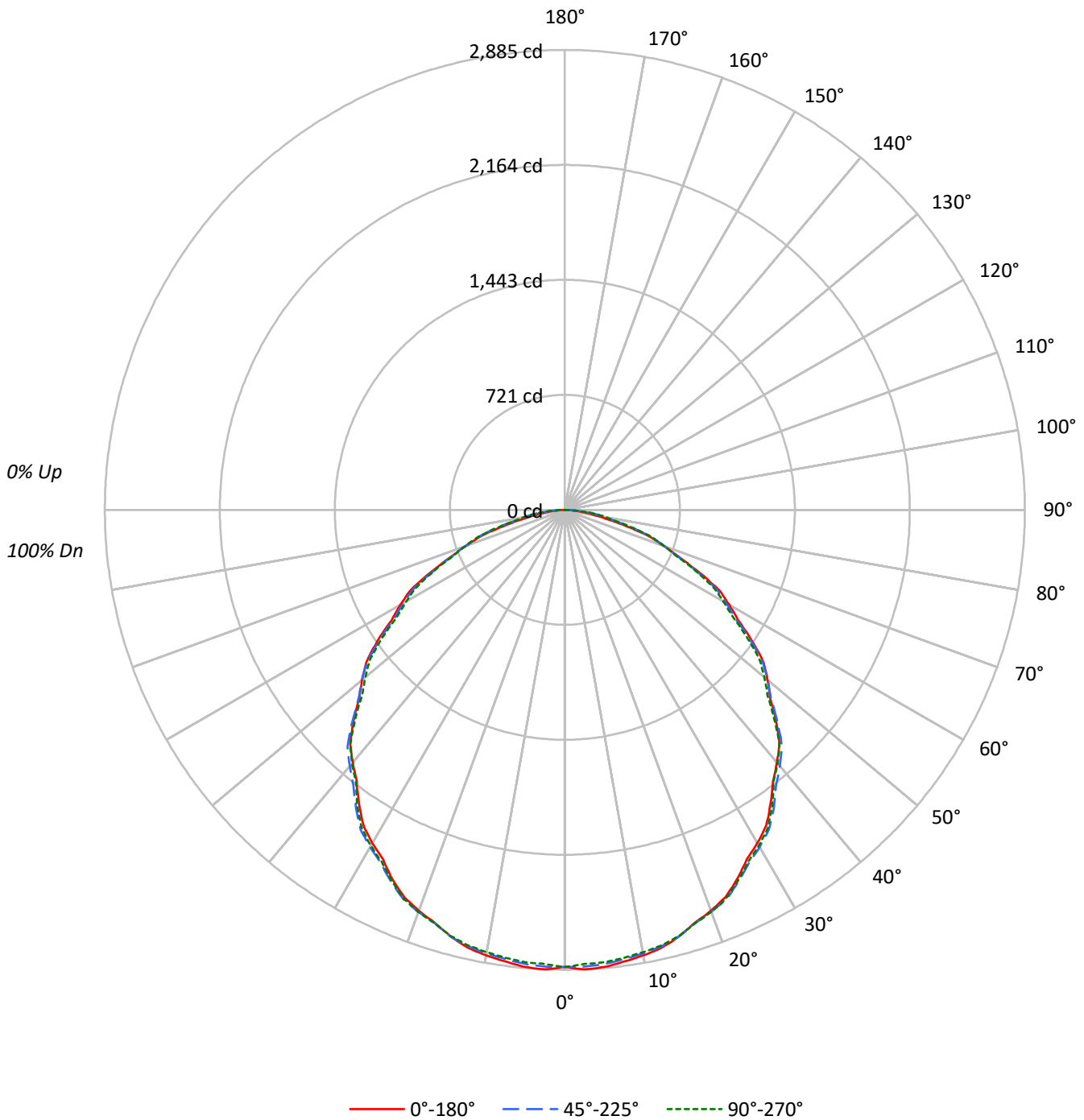
Lumens per Lamp: N/A
Luminaire Lumens: 7827.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13235	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12858	13014	12957
35°	12667	12861	12771
40°	12458	12634	12505
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10145	9943	9856
70°	8883	8955	8918
75°	7147	7905	7951
80°	5079	6703	6772
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	3.5
10°-20°	778.9	10.0
20°-30°	1179.6	15.1
30°-40°	1414.1	18.1
40°-50°	1441.9	18.4
50°-60°	1258.7	16.1
60°-70°	901.1	11.5
70°-80°	464.1	5.9
80°-90°	117.4	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°	2229.9	28.5
0°-40°	3644.0	46.6
0°-60°	6344.7	81.1
0°-90°	7827.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7827.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2868	2868	2868	2868	2868	
5°	2879	2850	2860	2852	2849	273
15°	2770	2746	2770	2770	2767	781
25°	2557	2539	2576	2568	2568	1177
35°	2249	2244	2284	2268	2268	1407
45°	1875	1870	1888	1864	1859	1443
55°	1434	1416	1415	1394	1394	1278
65°	929	909	911	903	903	919
75°	401	419	444	446	446	433
85°	58	90	106	109	106	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2868.0	2868.0	2868.0	2868.0	2868.0
2.5°	2885.0	2860.1	2868.0	2861.4	2851.0
5°	2878.6	2850.1	2860.0	2852.0	2849.4
7.5°	2857.9	2829.4	2842.5	2837.1	2834.5
10°	2838.8	2810.2	2825.5	2820.1	2817.5
12.5°	2813.3	2786.8	2804.3	2798.9	2798.4
15°	2769.7	2746.4	2769.7	2769.7	2767.1
17.5°	2715.0	2693.8	2718.8	2720.3	2718.8
20°	2676.8	2653.4	2684.8	2682.2	2684.8
22.5°	2630.1	2610.9	2644.4	2637.6	2640.2
25°	2557.3	2539.1	2575.9	2567.9	2567.9
27.5°	2471.3	2458.3	2498.3	2489.9	2489.9
30°	2413.9	2400.9	2443.1	2432.5	2432.5
32.5°	2350.2	2341.3	2381.5	2368.8	2368.8
35°	2249.3	2244.1	2283.8	2267.8	2267.8
37.5°	2145.2	2140.5	2176.5	2157.2	2151.0
40°	2068.7	2066.1	2097.9	2076.6	2076.6
42.5°	1992.2	1989.6	2017.2	1991.7	1991.7
45°	1874.8	1869.6	1888.1	1864.1	1858.9
47.5°	1746.8	1741.6	1753.2	1727.1	1724.5
50°	1659.7	1654.5	1659.7	1635.8	1633.2
52.5°	1570.5	1561.1	1562.0	1538.1	1537.6
55°	1434.0	1415.8	1415.4	1394.2	1394.2
57.5°	1289.5	1265.7	1267.8	1249.6	1247.1
60°	1189.7	1163.7	1165.8	1149.8	1147.2
62.5°	1092.0	1061.8	1068.1	1050.0	1049.5
65°	929.4	908.7	910.9	902.9	902.9
67.5°	773.3	754.1	768.0	761.6	761.1
70°	658.6	645.6	663.9	663.8	661.2
72.5°	552.4	551.8	574.7	574.7	576.3
75°	401.0	419.2	443.5	446.1	446.1
77.5°	267.7	299.9	326.6	327.7	327.2
80°	191.2	227.6	252.3	257.5	254.9
82.5°	129.6	168.0	188.5	193.8	191.2
85°	58.4	89.6	106.2	108.8	106.2
87.5°	17.0	35.7	42.5	42.4	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)