

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: P562875

Luminaire Tested: **SQ4-PC3-0U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562875
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-6
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

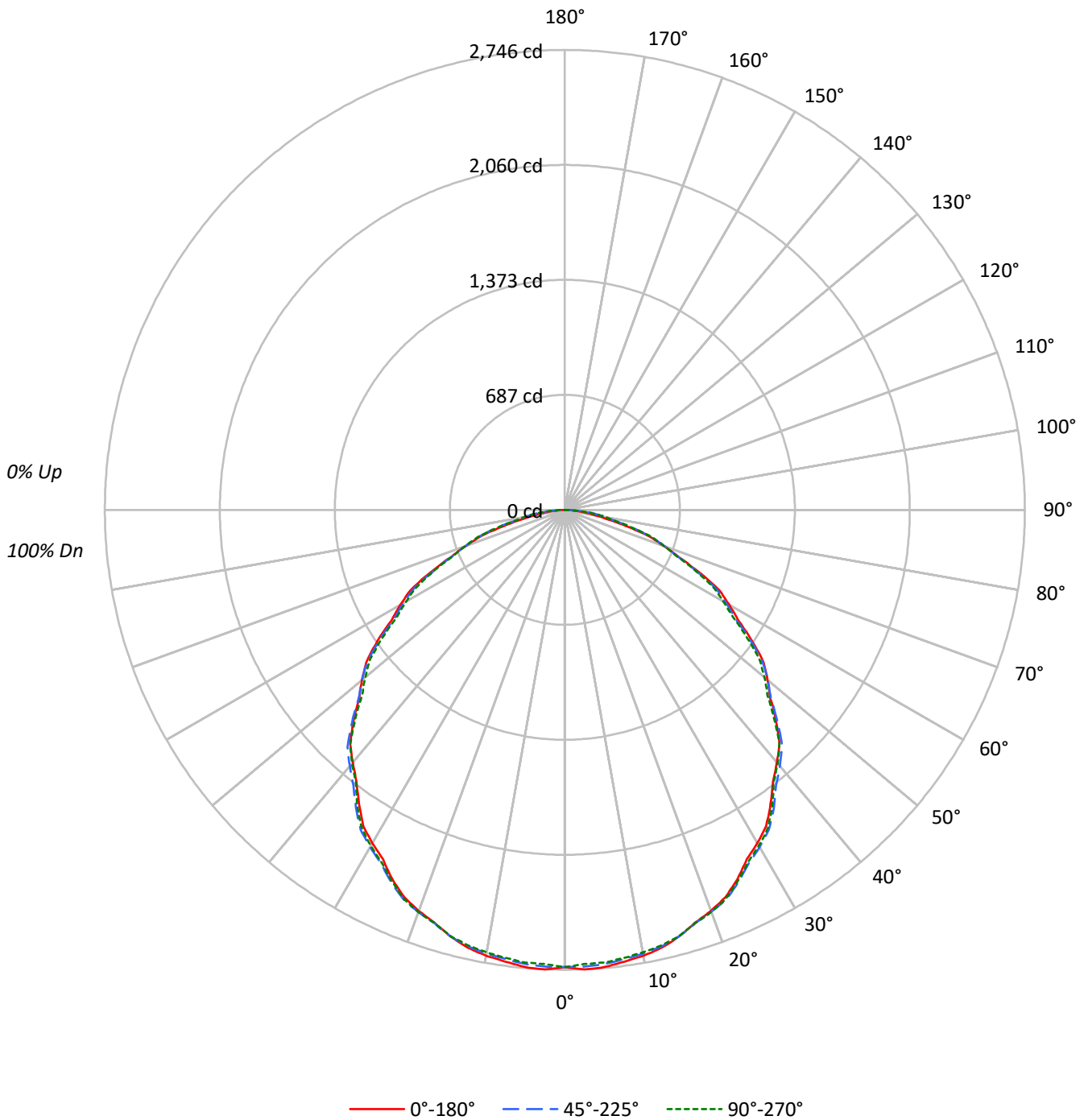
Lumens per Lamp: N/A
Luminaire Lumens: 7451.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16791	16791	16774
20°	16680	16730	16730
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14878
55°	14639	14450	14232
60°	13933	13652	13435
65°	12877	12620	12509
70°	11276	11366	11321
75°	9071	10034	10093
80°	6447	8508	8597
85°	3924	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	3.5
10°-20°	741.5	10.0
20°-30°	1122.9	15.1
30°-40°	1346.2	18.1
40°-50°	1372.7	18.4
50°-60°	1198.3	16.1
60°-70°	857.9	11.5
70°-80°	441.9	5.9
80°-90°	111.7	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°	2122.8	28.5
0°-40°	3469.1	46.6
0°-60°	6040.0	81.1
0°-90°	7451.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7451.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2730	2730	2730	2730	2730	
5°	2740	2713	2723	2715	2713	260
15°	2637	2614	2637	2637	2634	743
25°	2434	2417	2452	2445	2445	1120
35°	2141	2136	2174	2159	2159	1339
45°	1785	1780	1797	1775	1770	1374
55°	1365	1348	1348	1327	1327	1217
65°	885	865	867	860	860	875
75°	382	399	422	425	425	413
85°	56	85	101	104	101	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2730.3	2730.3	2730.3	2730.3	2730.3
2.5°	2746.5	2722.7	2730.3	2724.0	2714.1
5°	2740.4	2713.2	2722.7	2715.1	2712.6
7.5°	2720.7	2693.5	2706.0	2700.9	2698.4
10°	2702.5	2675.3	2689.8	2684.7	2682.3
12.5°	2678.2	2653.0	2669.6	2664.6	2664.1
15°	2636.8	2614.5	2636.8	2636.7	2634.2
17.5°	2584.7	2564.4	2588.2	2589.7	2588.2
20°	2548.3	2526.0	2555.9	2553.4	2555.9
22.5°	2503.8	2485.5	2517.4	2510.9	2513.4
25°	2434.5	2417.2	2452.2	2444.6	2444.6
27.5°	2352.6	2340.2	2378.4	2370.3	2370.3
30°	2298.0	2285.6	2325.8	2315.7	2315.7
32.5°	2237.3	2228.9	2267.2	2255.0	2255.0
35°	2141.3	2136.3	2174.1	2159.0	2159.0
37.5°	2042.2	2037.7	2072.0	2053.7	2047.7
40°	1969.4	1966.9	1997.2	1976.9	1976.9
42.5°	1896.5	1894.1	1920.3	1896.0	1896.0
45°	1784.8	1779.9	1797.4	1774.6	1769.6
47.5°	1663.0	1658.0	1669.0	1644.2	1641.7
50°	1580.0	1575.1	1580.0	1557.2	1554.8
52.5°	1495.1	1486.2	1487.0	1464.2	1463.7
55°	1365.1	1347.8	1347.5	1327.2	1327.2
57.5°	1227.6	1204.9	1206.9	1189.6	1187.2
60°	1132.6	1107.8	1109.8	1094.6	1092.1
62.5°	1039.5	1010.9	1016.8	999.6	999.1
65°	884.8	865.0	867.1	859.5	859.5
67.5°	736.2	717.9	731.1	725.0	724.5
70°	627.0	614.6	632.0	632.0	629.5
72.5°	525.8	525.3	547.1	547.1	548.6
75°	381.7	399.0	422.2	424.7	424.7
77.5°	254.8	285.5	311.0	312.0	311.5
80°	182.0	216.6	240.2	245.2	242.7
82.5°	123.4	160.0	179.5	184.5	182.0
85°	55.6	85.3	101.1	103.6	101.1
87.5°	16.2	34.0	40.4	40.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)