

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: P562564

Luminaire Tested: **SQ4-PC3-025U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562564
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

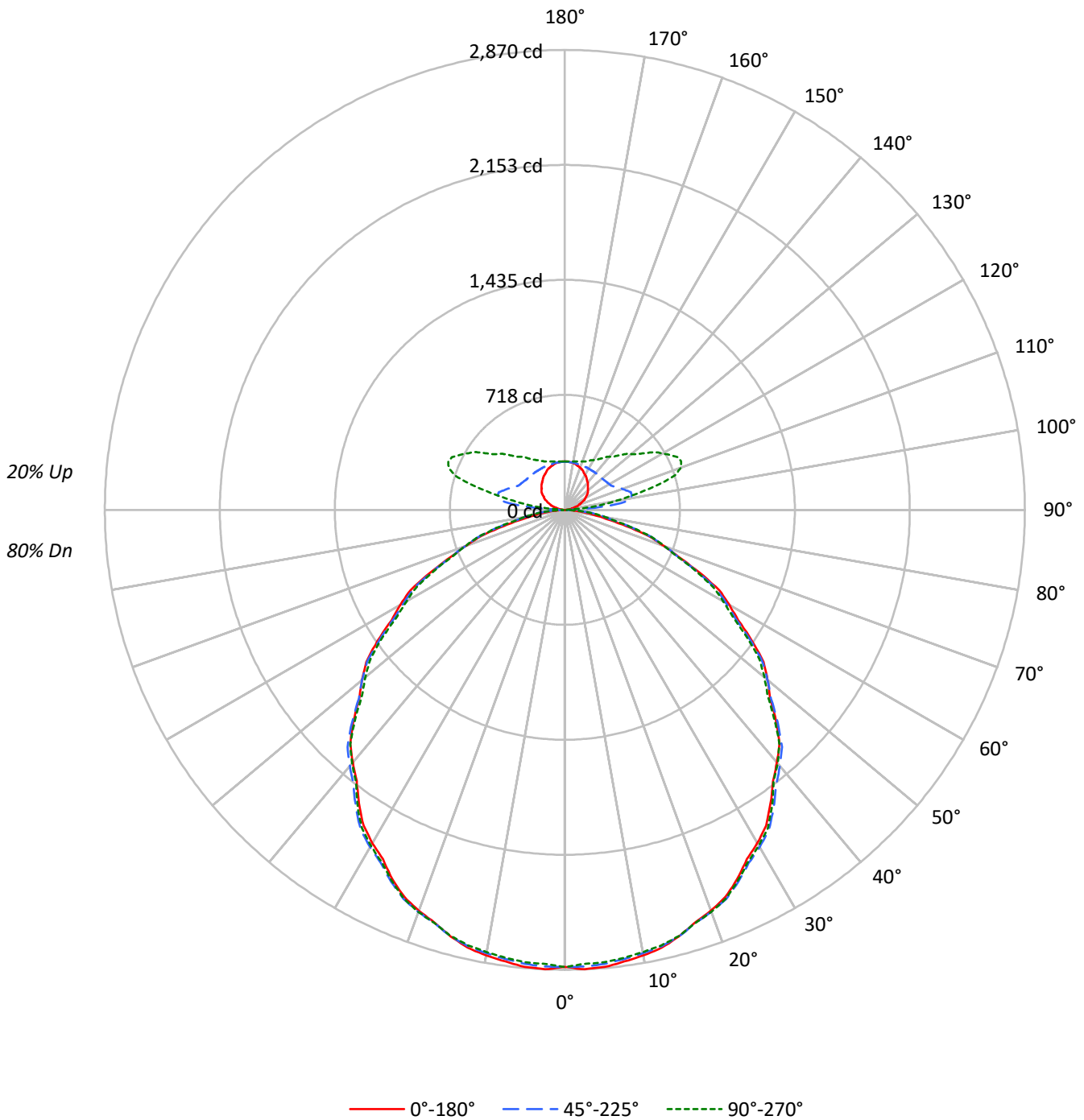
Lumens per Lamp: N/A
Luminaire Lumens: 9738.4 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13145
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12945	12888
35°	12599	12793	12703
40°	12391	12566	12438
45°	12166	12252	12063
50°	11848	11848	11658
55°	11471	11323	11153
60°	10917	10699	10528
65°	10091	9889	9803
70°	8836	8906	8871
75°	7108	7862	7908
80°	5053	6665	6737
85°	3075	5595	5595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	2.8
10°-20°	774.7	8.0
20°-30°	1173.3	12.0
30°-40°	1406.6	14.4
40°-50°	1434.2	14.7
50°-60°	1252.0	12.9
60°-70°	896.3	9.2
70°-80°	461.6	4.7
80°-90°	118.3	1.2
90°-100°	146.7	1.5
100°-110°	385.7	4.0
110°-120°	400.0	4.1
120°-130°	320.8	3.3
130°-140°	251.7	2.6
140°-150°	193.2	2.0
150°-160°	139.2	1.4
160°-170°	85.1	0.9
170°-180°	28.8	0.3
0°-30°	2218.0	22.8
0°-40°	3624.6	37.2
0°-60°	6310.8	64.8
0°-90°	7787.1	80.0
90°-120°	932.4	9.6
90°-150°	1698.2	17.4
90°-180°	1951.0	20.0
0°-180°	9738.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2863	2835	2845	2837	2834	272
15°	2755	2732	2755	2755	2752	777
25°	2544	2526	2562	2554	2554	1171
35°	2237	2232	2272	2256	2256	1399
45°	1865	1860	1878	1854	1849	1435
55°	1426	1408	1408	1387	1387	1271
65°	924	904	906	898	898	914
75°	399	417	441	444	444	431
85°	58	89	106	108	106	79
90°	2	6	15	8	8	4
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.7	2852.7	2852.7	2852.7	2852.7
2.5°	2869.6	2844.8	2852.7	2846.1	2835.8
5°	2863.2	2834.8	2844.8	2836.8	2834.2
7.5°	2842.6	2814.2	2827.3	2822.0	2819.4
10°	2823.6	2795.2	2810.4	2805.1	2802.5
12.5°	2798.3	2771.9	2789.3	2784.0	2783.5
15°	2754.9	2731.7	2754.9	2754.9	2752.3
17.5°	2700.5	2679.4	2704.2	2705.8	2704.2
20°	2662.5	2639.3	2670.4	2667.8	2670.4
22.5°	2616.0	2596.9	2630.3	2623.5	2626.0
25°	2543.6	2525.6	2562.1	2554.2	2554.2
27.5°	2458.1	2445.1	2485.0	2476.5	2476.5
30°	2401.0	2388.1	2430.1	2419.5	2419.5
32.5°	2337.6	2328.8	2368.8	2356.1	2356.1
35°	2237.2	2232.1	2271.6	2255.7	2255.7
37.5°	2133.7	2129.0	2164.9	2145.7	2139.5
40°	2057.6	2055.0	2086.7	2065.5	2065.5
42.5°	1981.6	1979.0	2006.4	1981.0	1981.0
45°	1864.8	1859.6	1878.0	1854.1	1849.0
47.5°	1737.5	1732.3	1743.8	1717.9	1715.3
50°	1650.9	1645.7	1650.9	1627.0	1624.4
52.5°	1562.1	1552.8	1553.7	1529.9	1529.4
55°	1426.3	1408.3	1407.8	1386.7	1386.7
57.5°	1282.6	1258.9	1261.0	1243.0	1240.4
60°	1183.3	1157.5	1159.6	1143.7	1141.1
62.5°	1086.1	1056.2	1062.4	1044.4	1043.9
65°	924.5	903.8	906.0	898.1	898.1
67.5°	769.2	750.1	763.9	757.5	757.0
70°	655.1	642.1	660.3	660.3	657.7
72.5°	549.4	548.9	571.6	571.6	573.2
75°	398.8	416.9	441.1	443.7	443.7
77.5°	266.2	298.3	324.9	325.9	325.4
80°	190.2	226.3	250.9	256.2	253.6
82.5°	128.9	167.1	187.5	192.8	190.2
85°	58.1	89.1	105.7	108.2	105.7
87.5°	17.3	36.6	45.3	43.7	39.6
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)