

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: P562756

Luminaire Tested: **SQ4-PC3-075U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562756
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

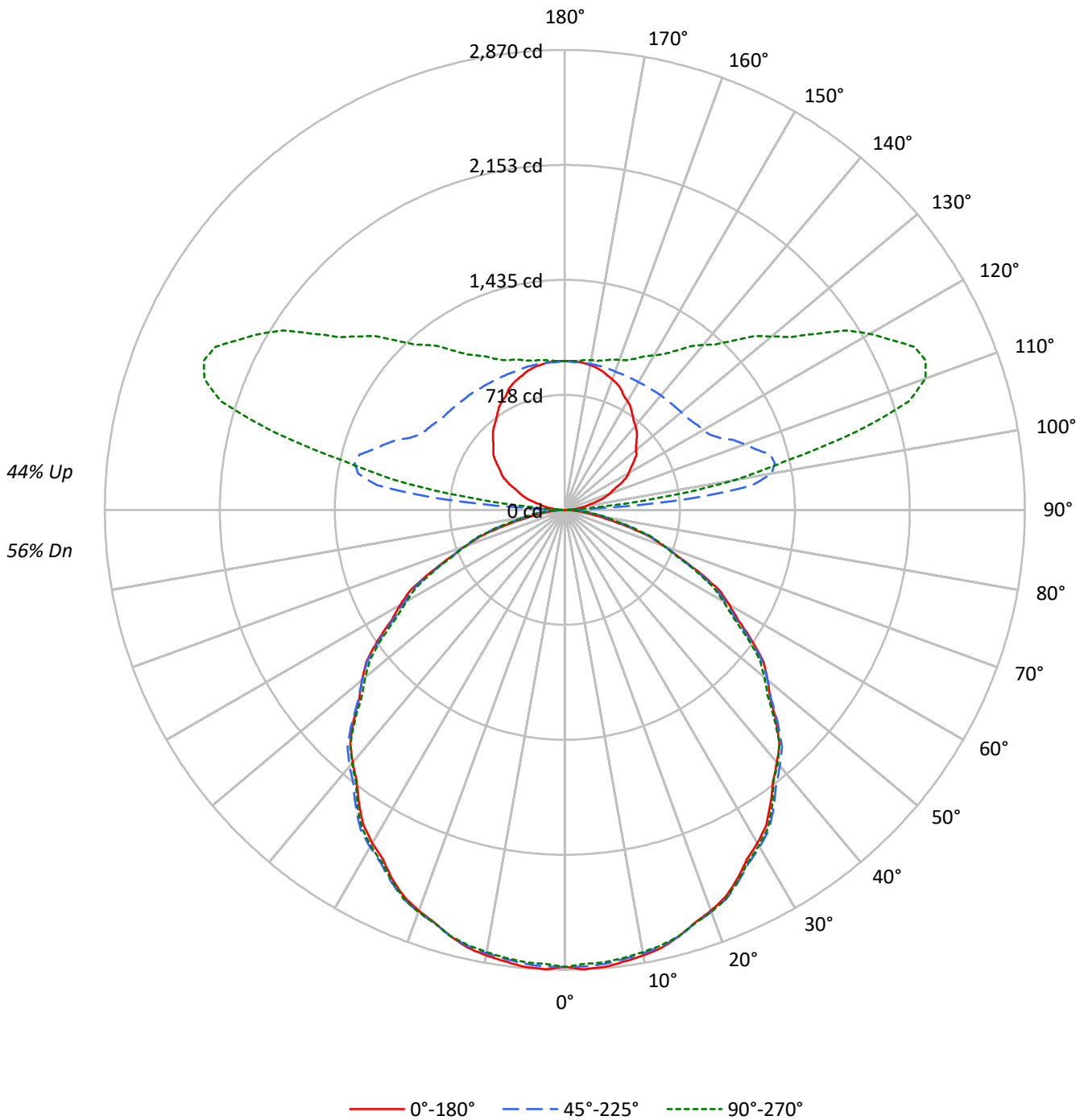
Lumens per Lamp: N/A
Luminaire Lumens: 13835.7 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

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	2.0
10°-20°	774.7	5.6
20°-30°	1173.3	8.5
30°-40°	1406.6	10.2
40°-50°	1434.2	10.4
50°-60°	1252.0	9.0
60°-70°	896.3	6.5
70°-80°	461.6	3.3
80°-90°	119.1	0.9
90°-100°	437.9	3.2
100°-110°	1204.6	8.7
110°-120°	1243.4	9.0
120°-130°	996.2	7.2
130°-140°	782.5	5.7
140°-150°	599.6	4.3
150°-160°	431.1	3.1
160°-170°	263.6	1.9
170°-180°	88.9	0.6
0°-30°	2218.0	16.0
0°-40°	3624.6	26.2
0°-60°	6310.8	45.6
0°-90°	7787.9	56.3
90°-120°	2885.9	20.9
90°-150°	5264.2	38.0
90°-180°	6048.0	43.7
0°-180°	13835.7	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	8	14	18	18	7
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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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	37.1	45.0	45.7	41.6
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)