

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: P562660

Luminaire Tested: **SQ4-PC3-050U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562660
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

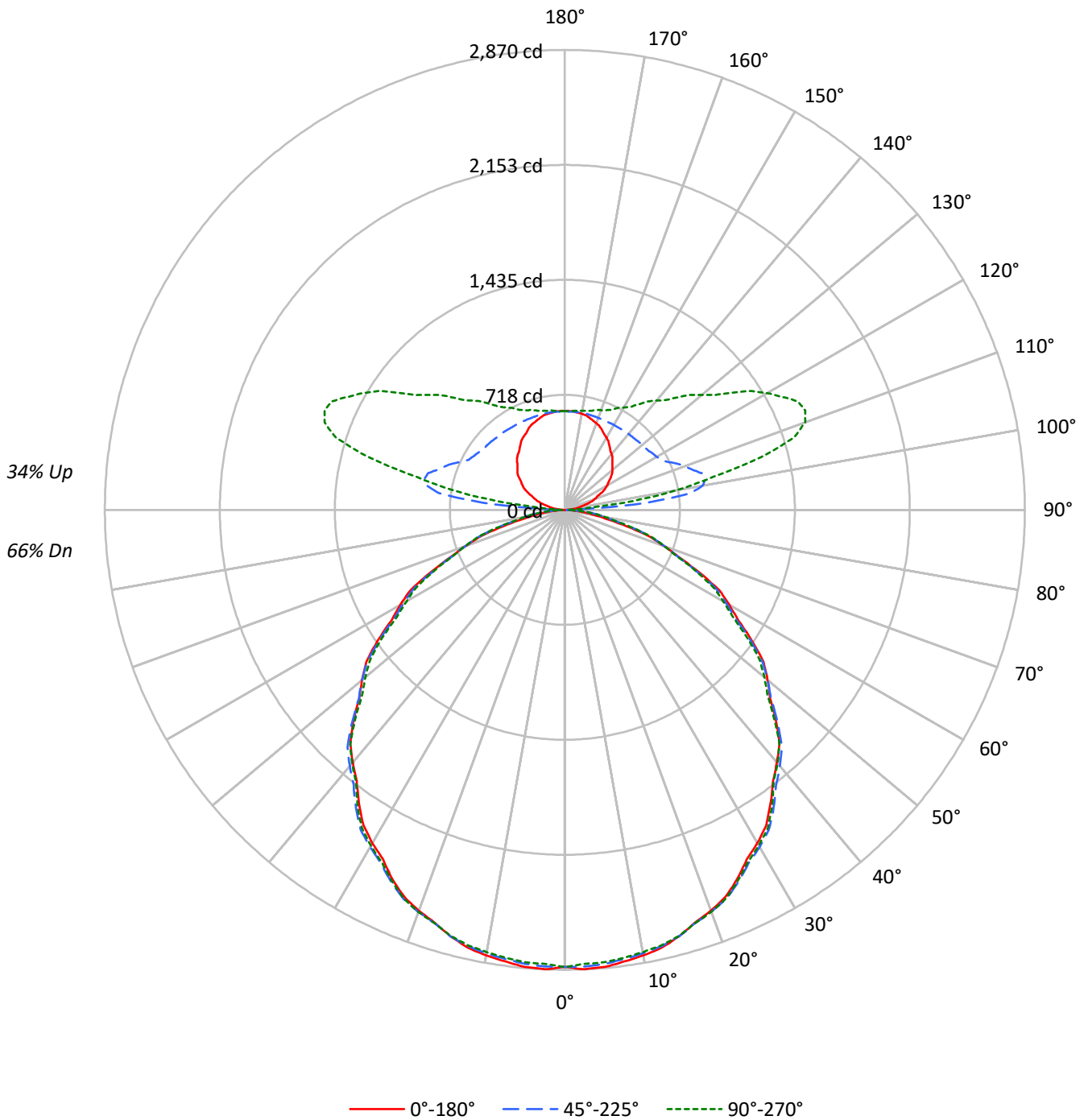
Lumens per Lamp: N/A
Luminaire Lumens: 11811.8 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 95.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

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	2.3
10°-20°	774.7	6.6
20°-30°	1173.3	9.9
30°-40°	1406.6	11.9
40°-50°	1434.2	12.1
50°-60°	1252.0	10.6
60°-70°	896.3	7.6
70°-80°	461.6	3.9
80°-90°	119.1	1.0
90°-100°	295.8	2.5
100°-110°	803.7	6.8
110°-120°	826.3	7.0
120°-130°	660.7	5.6
130°-140°	519.1	4.4
140°-150°	398.0	3.4
150°-160°	286.2	2.4
160°-170°	175.1	1.5
170°-180°	59.0	0.5
0°-30°	2218.0	18.8
0°-40°	3624.6	30.7
0°-60°	6310.8	53.4
0°-90°	7787.9	65.9
90°-120°	1925.8	16.3
90°-150°	3503.7	29.7
90°-180°	4024.0	34.1
0°-180°	11811.8	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	5
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	

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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	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)