

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P234582

Luminaire Tested: **CTA-F-2575-50L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-13)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-2575-50L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9673.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Semi-Direct

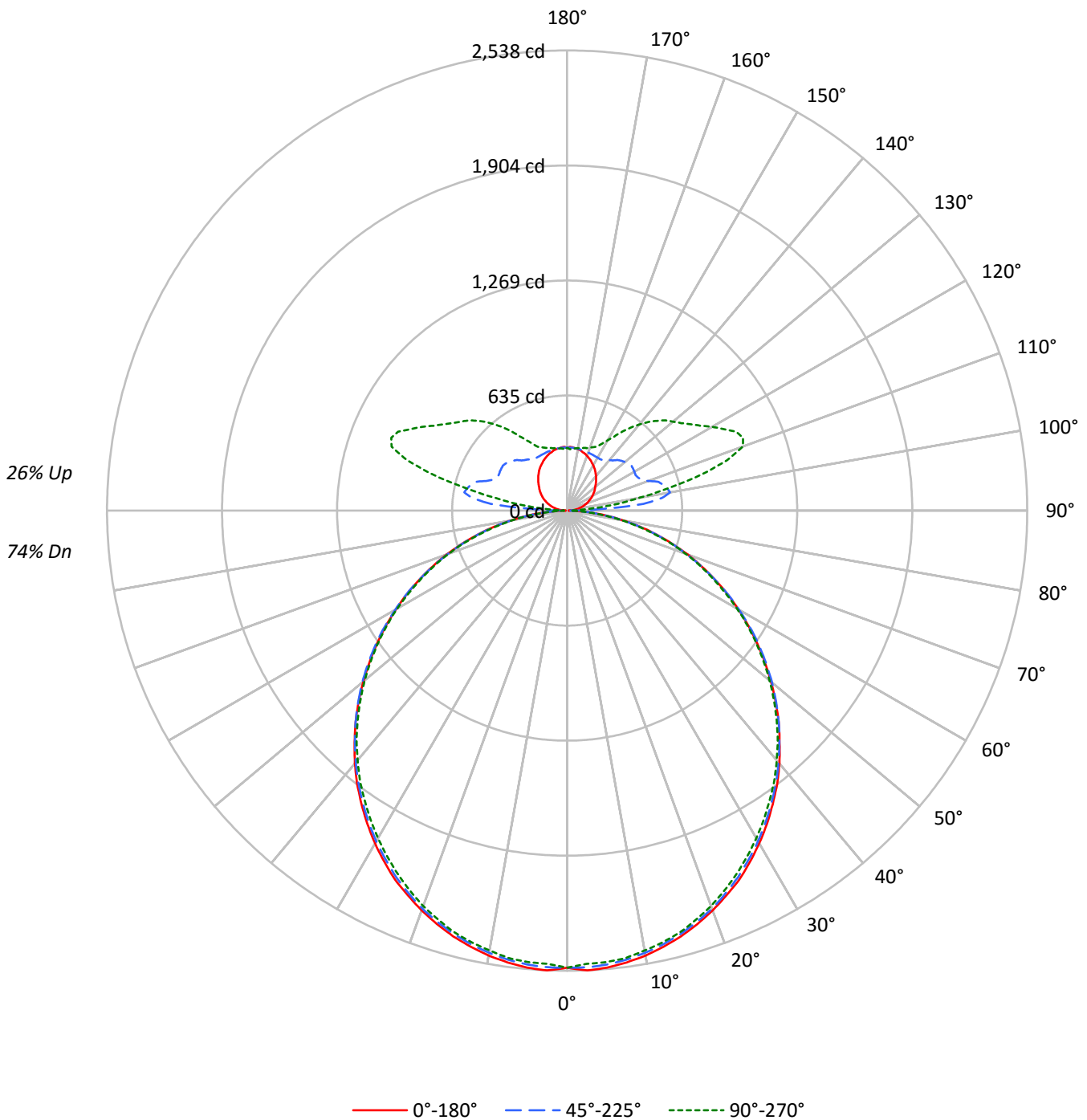
Input Watts (W): 92.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234582

CATALOG NUMBER: CTA-F-2575-50L830-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P234582

CATALOG NUMBER: CTA-F-2575-50L830-UNV-8

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	98	94	90	97	93	90	86	84	82	79	76	74	72	69	67	65	62
2	93	85	79	73	88	81	75	70	74	69	65	67	63	60	60	57	55	51
3	85	75	67	61	80	71	64	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	51	73	63	56	50	57	51	46	52	47	43	47	43	40	37
5	71	59	50	44	67	56	48	43	51	45	40	47	41	37	42	38	34	32
6	66	53	44	38	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	39	34	58	46	38	33	42	35	31	38	33	29	35	30	27	24
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8141	8141	8141
5°	8203	8147	8103
10°	8172	8121	8077
15°	8126	8081	8049
20°	8062	8029	7976
25°	8003	7948	7879
30°	7901	7851	7779
35°	7793	7747	7679
40°	7676	7644	7579
45°	7535	7535	7464
50°	7371	7409	7322
55°	7210	7264	7167
60°	7042	7079	6992
65°	6862	6862	6773
70°	6663	6609	6554
75°	6358	6310	6165
80°	5865	5865	5649
85°	5201	4987	4561



TEST NUMBER: P234582

CATALOG NUMBER: CTA-F-2575-50L830-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	2.5
10°-20°	681.0	7.0
20°-30°	1024.5	10.6
30°-40°	1226.4	12.7
40°-50°	1266.9	13.1
50°-60°	1145.4	11.8
60°-70°	886.8	9.2
70°-80°	533.0	5.5
80°-90°	155.9	1.6
90°-100°	209.2	2.2
100°-110°	511.0	5.3
110°-120°	519.6	5.4
120°-130°	419.0	4.3
130°-140°	330.5	3.4
140°-150°	235.4	2.4
150°-160°	159.2	1.6
160°-170°	97.4	1.0
170°-180°	33.1	0.3
0°-30°	1944.0	20.1
0°-40°	3170.4	32.8
0°-60°	5582.7	57.7
0°-90°	7158.5	74.0
90°-120°	1239.9	12.8
90°-150°	2224.8	23.0
90°-180°	2514.0	26.0
0°-180°	9673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2521	2521	2521	2521	2521	
5°	2531	2506	2514	2508	2500	240
15°	2431	2408	2417	2415	2408	686
25°	2246	2221	2231	2217	2212	1034
35°	1977	1958	1965	1956	1948	1237
45°	1650	1640	1650	1640	1635	1272
55°	1281	1279	1290	1279	1273	1145
65°	898	902	898	890	886	890
75°	510	510	506	502	494	538
85°	140	142	135	127	123	151
90°	8	19	19	19	17	13
95°	33	92	421	210	142	34
105°	88	156	548	869	765	93
115°	136	200	431	886	1029	136
125°	183	217	433	710	831	163
135°	225	246	394	608	700	174
145°	269	281	340	465	533	168
155°	306	310	338	373	388	141
165°	333	333	342	356	358	94
175°	350	346	348	348	344	33
180°	346	346	346	346	346	



TEST NUMBER: P234582

CATALOG NUMBER: CTA-F-2575-50L830-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2521.2	2521.2	2521.2	2521.2	2521.2
2.5°	2538.5	2513.5	2521.2	2517.3	2501.9
5°	2530.8	2505.8	2513.5	2507.7	2500.0
7.5°	2513.5	2490.4	2498.1	2494.2	2488.5
10°	2492.3	2469.2	2476.9	2471.2	2463.5
12.5°	2463.5	2440.4	2450.0	2444.2	2438.5
15°	2430.8	2407.7	2417.3	2415.4	2407.7
17.5°	2390.4	2369.2	2378.8	2375.0	2365.4
20°	2346.2	2325.0	2336.5	2326.9	2321.2
22.5°	2296.2	2273.1	2284.6	2273.1	2267.3
25°	2246.2	2221.2	2230.8	2217.3	2211.5
27.5°	2184.6	2159.6	2169.2	2155.8	2150.0
30°	2119.2	2096.2	2105.8	2092.3	2086.5
32.5°	2050.0	2028.8	2038.5	2025.0	2019.2
35°	1976.9	1957.7	1965.4	1955.8	1948.1
37.5°	1901.9	1882.7	1892.3	1880.8	1876.9
40°	1821.2	1805.8	1813.5	1801.9	1798.1
42.5°	1734.6	1723.1	1732.7	1723.1	1719.2
45°	1650.0	1640.4	1650.0	1640.4	1634.6
47.5°	1559.6	1551.9	1563.5	1551.9	1546.2
50°	1467.3	1465.4	1475.0	1465.4	1457.7
52.5°	1375.0	1373.1	1382.7	1373.1	1365.4
55°	1280.8	1278.8	1290.4	1278.8	1273.1
57.5°	1186.5	1186.5	1194.2	1182.7	1178.8
60°	1090.4	1092.3	1096.2	1086.5	1082.7
62.5°	996.2	996.2	998.1	992.3	982.7
65°	898.1	901.9	898.1	890.4	886.5
67.5°	801.9	803.8	798.1	794.2	792.3
70°	705.8	705.8	700.0	698.1	694.2
72.5°	607.7	609.6	601.9	598.1	596.2
75°	509.6	509.6	505.8	501.9	494.2
77.5°	413.5	411.5	409.6	400.0	398.1
80°	315.4	319.2	315.4	305.8	303.8
82.5°	226.9	228.8	223.1	213.5	211.5
85°	140.4	142.3	134.6	126.9	123.1
87.5°	59.6	61.5	51.9	46.2	44.2
90°	7.7	19.2	19.2	19.2	17.3
92.5°	23.1	63.5	186.5	61.5	46.2
95°	32.7	92.3	421.2	209.6	142.3
97.5°	50.0	109.6	526.9	353.8	273.1
100°	63.5	138.5	576.9	513.5	403.8
102.5°	75.0	148.1	565.4	703.8	571.2
105°	88.5	155.8	548.1	869.2	765.4
107.5°	100.0	165.4	526.9	959.6	925.0
110°	113.5	180.8	476.9	978.8	1030.8



TEST NUMBER: P234582

CATALOG NUMBER: CTA-F-2575-50L830-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.0	192.3	444.2	946.2	1050.0
115°	136.5	200.0	430.8	886.5	1028.8
117.5°	150.0	205.8	425.0	826.9	973.1
120°	159.6	207.7	428.8	773.1	923.1
122.5°	171.2	211.5	430.8	738.5	871.2
125°	182.7	217.3	432.7	709.6	830.8
127.5°	192.3	219.2	426.9	686.5	792.3
130°	201.9	226.9	417.3	667.3	763.5
132.5°	213.5	234.6	405.8	638.5	736.5
135°	225.0	246.2	394.2	607.7	700.0
137.5°	236.5	255.8	375.0	575.0	663.5
140°	248.1	263.5	363.5	540.4	619.2
142.5°	257.7	273.1	355.8	505.8	576.9
145°	269.2	280.8	340.4	465.4	532.7
147.5°	278.8	288.5	336.5	428.8	484.6
150°	288.5	296.2	336.5	407.7	448.1
152.5°	296.2	301.9	336.5	380.8	415.4
155°	305.8	309.6	338.5	373.1	388.5
157.5°	313.5	315.4	338.5	365.4	378.8
160°	321.2	323.1	340.4	361.5	369.2
162.5°	328.8	328.8	342.3	355.8	361.5
165°	332.7	332.7	342.3	355.8	357.7
167.5°	340.4	336.5	344.2	350.0	351.9
170°	344.2	340.4	346.2	350.0	350.0
172.5°	346.2	346.2	346.2	348.1	346.2
175°	350.0	346.2	348.1	348.1	344.2
177.5°	351.9	346.2	348.1	348.1	338.5
180°	346.2	346.2	346.2	346.2	346.2

(END OF REPORT)