

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: P234579

Luminaire Tested: **CTA-F-2575-40L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-12)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-2575-40L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT
Light Source: (1008) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12511.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Semi-Direct

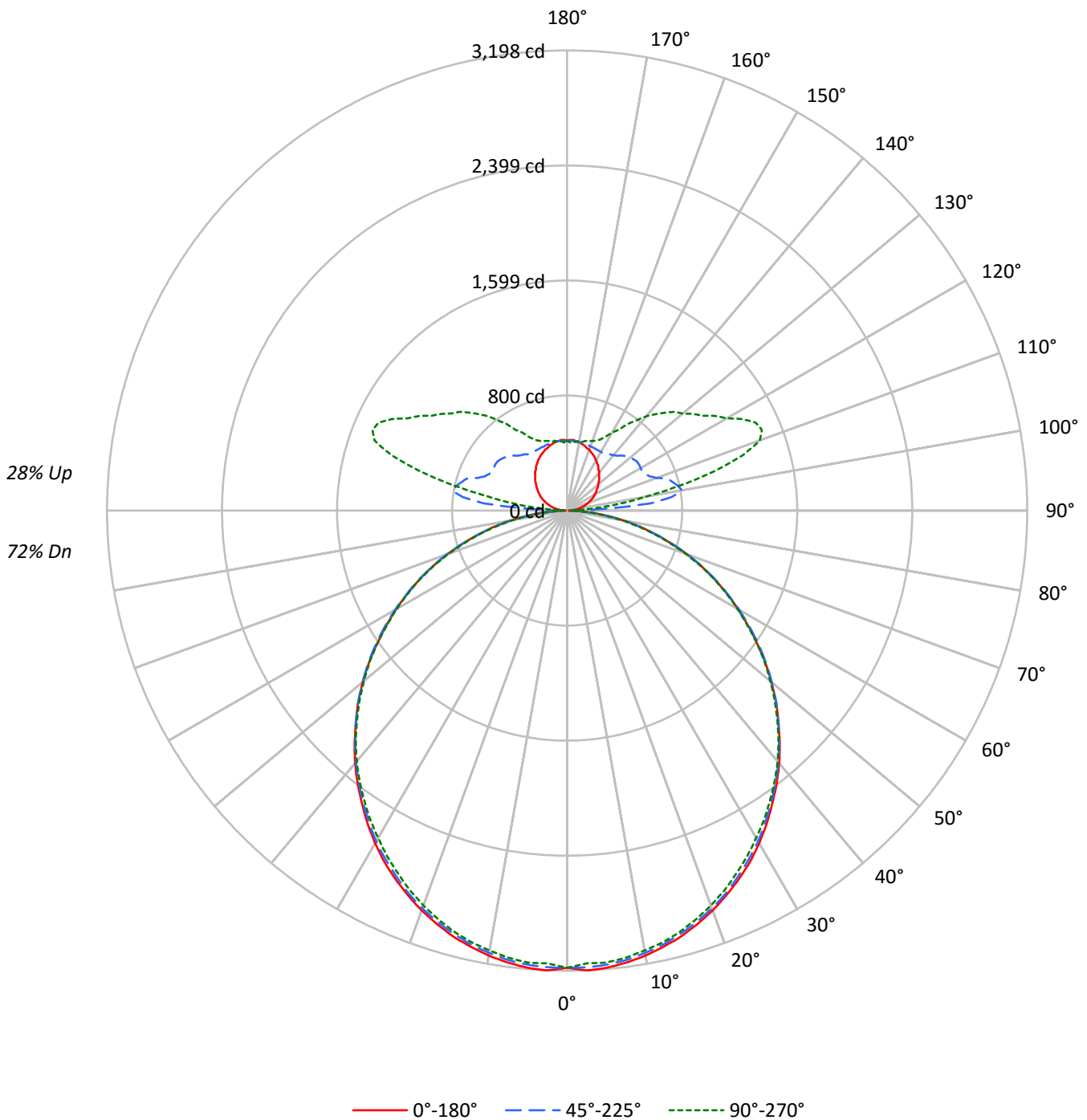
Input Watts (W): 110.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	102	98	94	90	97	93	89	86	83	81	78	75	73	71	67	65	64	60
2	93	85	79	73	88	81	75	70	73	68	64	65	62	59	59	56	53	50
3	85	75	67	61	80	71	64	58	64	58	54	58	53	49	52	48	45	42
4	77	66	58	51	73	63	55	49	57	51	46	51	46	42	46	42	39	36
5	71	59	50	44	67	56	48	42	51	44	39	46	41	36	41	37	34	31
6	66	53	44	38	62	50	42	37	46	39	34	42	36	32	38	33	29	27
7	61	48	39	33	57	46	38	32	42	35	30	38	32	28	34	30	26	24
8	56	43	35	30	53	41	34	29	38	31	27	35	29	25	31	27	23	21
9	53	40	32	26	50	38	31	26	35	29	24	32	26	23	29	24	21	19
10	49	36	29	24	47	35	28	23	32	26	22	29	24	20	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6839	6839	6839
5°	6891	6845	6812
10°	6864	6824	6784
15°	6828	6787	6753
20°	6773	6738	6689
25°	6710	6667	6609
30°	6635	6597	6529
35°	6533	6501	6460
40°	6444	6418	6393
45°	6320	6320	6292
50°	6205	6215	6175
55°	6048	6093	6048
60°	5911	5950	5884
65°	5762	5794	5731
70°	5581	5619	5504
75°	5264	5315	5188
80°	4966	4889	4738
85°	4305	4228	3776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	2.4
10°-20°	858.1	6.9
20°-30°	1290.8	10.3
30°-40°	1545.1	12.3
40°-50°	1598.1	12.8
50°-60°	1445.3	11.6
60°-70°	1119.4	8.9
70°-80°	670.9	5.4
80°-90°	196.3	1.6
90°-100°	287.3	2.3
100°-110°	710.6	5.7
110°-120°	722.7	5.8
120°-130°	579.7	4.6
130°-140°	455.9	3.6
140°-150°	326.6	2.6
150°-160°	222.2	1.8
160°-170°	136.1	1.1
170°-180°	46.3	0.4
0°-30°	2449.3	19.6
0°-40°	3994.4	31.9
0°-60°	7037.7	56.2
0°-90°	9024.4	72.1
90°-120°	1720.6	13.8
90°-150°	3082.8	24.6
90°-180°	3487.0	27.9
0°-180°	12511.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3177	3177	3177	3177	3177	
5°	3189	3159	3168	3159	3152	303
15°	3064	3036	3046	3042	3030	864
25°	2825	2798	2807	2792	2782	1302
35°	2486	2468	2474	2461	2458	1556
45°	2076	2067	2076	2070	2067	1603
55°	1611	1614	1624	1614	1611	1443
65°	1131	1134	1138	1125	1125	1119
75°	633	642	639	627	624	673
85°	174	177	171	159	153	189
90°	12	24	24	24	21	18
95°	43	125	581	290	196	45
105°	119	211	761	1214	1058	127
115°	190	275	599	1229	1446	187
125°	251	300	593	982	1150	226
135°	315	342	541	835	963	243
145°	376	391	477	645	734	235
155°	428	431	471	520	544	197
165°	468	465	477	495	502	132
175°	492	486	486	486	483	47
180°	486	486	486	486	486	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3176.9	3176.9	3176.9	3176.9	3176.9
2.5°	3198.3	3167.8	3176.9	3170.8	3149.4
5°	3189.2	3158.6	3167.8	3158.6	3152.5
7.5°	3167.8	3140.2	3149.4	3140.2	3134.1
10°	3140.2	3109.7	3121.9	3112.7	3103.6
12.5°	3103.6	3076.0	3088.3	3079.1	3073.0
15°	3063.8	3036.3	3045.5	3042.4	3030.2
17.5°	3011.8	2987.4	2996.5	2993.5	2978.2
20°	2956.8	2929.3	2941.5	2932.3	2920.1
22.5°	2892.6	2865.1	2880.3	2865.1	2855.9
25°	2825.3	2797.8	2807.0	2791.7	2782.5
27.5°	2751.9	2724.4	2733.6	2718.3	2709.1
30°	2669.4	2644.9	2654.1	2635.7	2626.6
32.5°	2580.7	2559.3	2565.4	2550.1	2547.1
35°	2485.9	2467.6	2473.7	2461.4	2458.4
37.5°	2391.1	2372.8	2378.9	2369.7	2369.7
40°	2293.3	2274.9	2284.1	2278.0	2274.9
42.5°	2186.2	2174.0	2180.1	2177.1	2174.0
45°	2076.2	2067.0	2076.2	2070.1	2067.0
47.5°	1969.2	1956.9	1969.2	1963.0	1956.9
50°	1853.0	1846.8	1856.0	1849.9	1843.8
52.5°	1736.8	1730.7	1742.9	1736.8	1730.7
55°	1611.4	1614.5	1623.6	1614.5	1611.4
57.5°	1492.2	1495.2	1504.4	1498.3	1486.0
60°	1372.9	1376.0	1382.1	1376.0	1366.8
62.5°	1250.6	1253.7	1256.7	1250.6	1247.5
65°	1131.3	1134.4	1137.5	1125.2	1125.2
67.5°	1009.0	1015.2	1012.1	1002.9	999.9
70°	886.7	889.8	892.8	880.6	874.5
72.5°	755.2	767.5	761.4	749.1	746.1
75°	632.9	642.1	639.1	626.8	623.8
77.5°	519.8	519.8	513.7	507.6	501.5
80°	400.6	400.6	394.4	388.3	382.2
82.5°	284.4	287.4	281.3	272.1	266.0
85°	174.3	177.3	171.2	159.0	152.9
87.5°	73.4	76.4	67.3	58.1	55.0
90°	12.2	24.5	24.5	24.5	21.4
92.5°	30.6	85.6	235.4	82.6	61.2
95°	42.8	125.4	581.0	290.5	195.7
97.5°	64.2	149.8	736.9	492.3	376.1
100°	85.6	186.5	810.3	709.4	553.4
102.5°	104.0	204.9	788.9	984.6	801.1
105°	119.2	211.0	761.4	1213.9	1058.0
107.5°	137.6	223.2	733.8	1345.4	1281.2
110°	152.9	244.6	663.5	1366.8	1424.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.2	259.9	620.7	1320.9	1464.6
115°	189.6	275.2	599.3	1229.2	1446.3
117.5°	207.9	281.3	587.1	1152.7	1376.0
120°	220.2	287.4	590.1	1079.4	1281.2
122.5°	238.5	290.5	593.2	1027.4	1223.1
125°	250.7	299.7	593.2	981.5	1149.7
127.5°	269.1	305.8	584.0	947.9	1103.8
130°	281.3	314.9	571.8	917.3	1048.8
132.5°	299.7	327.2	559.6	880.6	1015.2
135°	314.9	342.5	541.2	834.7	963.2
137.5°	327.2	354.7	516.7	791.9	908.1
140°	348.6	366.9	501.5	743.0	856.2
142.5°	357.7	379.2	492.3	694.1	788.9
145°	376.1	391.4	477.0	645.2	733.8
147.5°	388.3	403.6	470.9	599.3	663.5
150°	403.6	412.8	470.9	568.7	626.8
152.5°	415.8	425.0	470.9	532.0	577.9
155°	428.1	431.1	470.9	519.8	544.3
157.5°	437.2	440.3	473.9	507.6	525.9
160°	449.5	449.5	473.9	504.5	513.7
162.5°	455.6	455.6	480.1	498.4	507.6
165°	467.8	464.8	477.0	495.3	501.5
167.5°	473.9	470.9	483.1	492.3	489.2
170°	483.1	477.0	483.1	489.2	492.3
172.5°	486.2	480.1	486.2	489.2	480.1
175°	492.3	486.2	486.2	486.2	483.1
177.5°	492.3	486.2	486.2	486.2	473.9
180°	486.2	486.2	486.2	486.2	486.2

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