

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: P234862

Luminaire Tested: **CTA-F-2575-20L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-4_PR)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-2575-20L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 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: 6957.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Semi-Direct

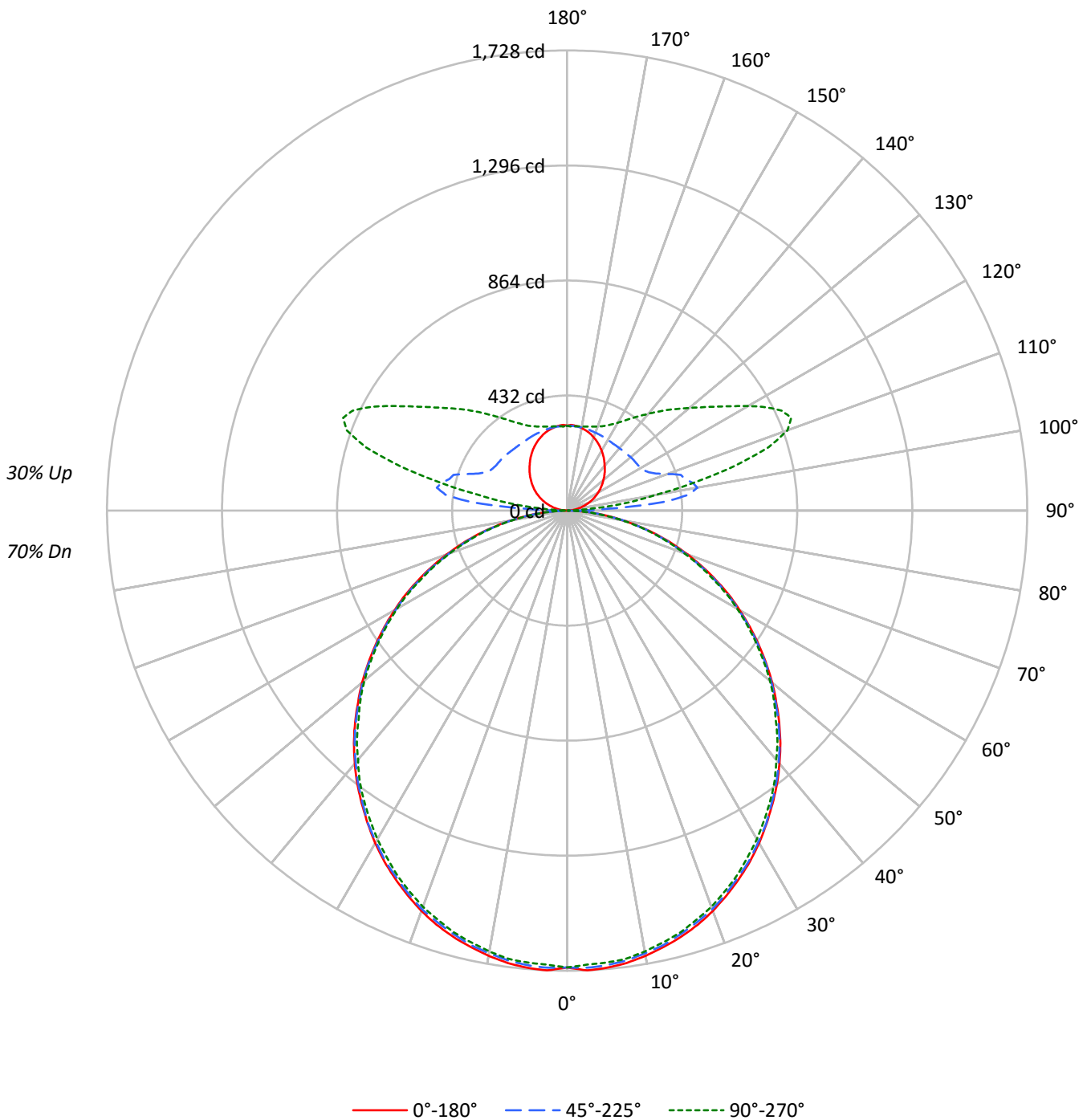
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234862

CATALOG NUMBER: CTA-F-2575-20L840-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P234862

CATALOG NUMBER: CTA-F-2575-20L840-UNV-12

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	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	97	93	89	96	92	89	85	82	80	77	74	71	69	65	64	62	58
2	93	85	78	73	87	80	74	70	72	67	63	64	61	58	57	54	52	48
3	84	74	66	60	79	70	63	58	63	58	53	57	52	48	50	47	44	41
4	77	66	57	51	73	62	55	49	56	50	45	50	45	41	45	41	38	35
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	33	30
6	65	53	44	38	61	50	42	37	45	39	34	41	35	31	37	32	29	26
7	60	47	39	33	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	29	53	41	34	28	37	31	27	34	29	25	31	26	23	21
9	52	39	32	26	49	38	30	25	34	28	24	31	26	22	28	24	21	19
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3693	3693	3693
5°	3724	3703	3682
10°	3710	3689	3674
15°	3692	3670	3656
20°	3665	3650	3627
25°	3625	3609	3587
30°	3583	3571	3542
35°	3532	3521	3496
40°	3486	3472	3433
45°	3429	3416	3372
50°	3367	3353	3329
55°	3295	3277	3251
60°	3220	3199	3178
65°	3136	3097	3062
70°	3025	2978	2947
75°	2894	2835	2812
80°	2665	2639	2587
85°	2388	2233	2045



TEST NUMBER: P234862

CATALOG NUMBER: CTA-F-2575-20L840-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	2.3
10°-20°	464.1	6.7
20°-30°	698.3	10.0
30°-40°	835.5	12.0
40°-50°	862.2	12.4
50°-60°	779.6	11.2
60°-70°	602.1	8.7
70°-80°	361.5	5.2
80°-90°	104.5	1.5
90°-100°	169.0	2.4
100°-110°	428.4	6.2
110°-120°	430.4	6.2
120°-130°	333.8	4.8
130°-140°	262.5	3.8
140°-150°	200.0	2.9
150°-160°	144.0	2.1
160°-170°	89.0	1.3
170°-180°	30.3	0.4
0°-30°	1324.8	19.0
0°-40°	2160.4	31.1
0°-60°	3802.1	54.6
0°-90°	4870.3	70.0
90°-120°	1027.8	14.8
90°-150°	1824.0	26.2
90°-180°	2087.0	30.0
0°-180°	6957.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1723	1707	1714	1709	1704	164
15°	1656	1640	1647	1645	1640	467
25°	1526	1512	1519	1510	1510	703
35°	1344	1335	1340	1327	1330	841
45°	1126	1117	1122	1110	1108	869
55°	878	876	873	864	866	785
65°	616	611	608	603	601	610
75°	348	343	341	341	338	366
85°	97	97	90	85	83	103
90°	1	2	2	2	1	7
95°	18	62	360	170	110	19
105°	63	104	458	746	654	66
115°	110	139	340	762	888	109
125°	156	180	314	567	680	140
135°	199	217	308	461	534	154
145°	240	252	305	381	423	150
155°	277	281	309	337	352	128
165°	305	305	314	323	326	86
175°	321	316	318	318	318	30
180°	319	319	319	319	319	



TEST NUMBER: P234862

CATALOG NUMBER: CTA-F-2575-20L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1728.2	1711.5	1718.4	1715.6	1706.6
5°	1723.3	1706.6	1713.5	1708.7	1703.8
7.5°	1713.5	1697.5	1703.8	1698.9	1697.5
10°	1697.5	1680.8	1687.8	1682.2	1680.8
12.5°	1678.1	1661.4	1671.1	1666.2	1661.4
15°	1656.5	1640.5	1646.8	1645.4	1640.5
17.5°	1630.8	1614.1	1621.0	1618.9	1612.0
20°	1600.1	1583.4	1593.2	1585.5	1583.4
22.5°	1564.0	1550.0	1557.7	1548.0	1548.0
25°	1526.4	1512.5	1519.4	1510.4	1510.4
27.5°	1486.0	1472.1	1481.2	1470.0	1467.3
30°	1441.5	1429.0	1436.6	1424.8	1424.8
32.5°	1393.5	1384.5	1392.1	1377.5	1377.5
35°	1344.1	1335.1	1339.9	1327.4	1330.2
37.5°	1294.7	1285.0	1289.9	1278.0	1280.1
40°	1240.5	1232.8	1235.6	1223.8	1221.7
42.5°	1185.5	1175.8	1181.3	1169.5	1169.5
45°	1126.4	1117.3	1122.2	1109.7	1107.6
47.5°	1065.1	1062.4	1060.3	1051.2	1053.3
50°	1005.3	1003.9	1001.1	991.4	994.2
52.5°	942.0	939.2	937.8	928.1	930.2
55°	878.0	875.9	873.1	864.1	866.2
57.5°	814.0	811.9	809.1	802.9	802.9
60°	747.9	745.8	743.0	738.2	738.2
62.5°	684.6	681.8	676.9	672.1	672.1
65°	615.7	610.8	608.1	603.2	601.1
67.5°	548.9	542.0	539.9	537.1	535.0
70°	480.7	475.9	473.1	471.0	468.2
72.5°	413.9	409.8	407.0	407.0	402.1
75°	347.9	343.0	340.9	340.9	338.1
77.5°	279.0	281.8	276.9	276.9	272.0
80°	215.0	215.0	212.9	210.8	208.7
82.5°	153.8	156.5	151.7	148.9	144.0
85°	96.7	96.7	90.4	84.9	82.8
87.5°	42.4	40.4	35.5	30.6	25.7
90°	1.4	2.1	2.1	2.1	1.4
92.5°	9.0	40.4	149.6	35.5	23.7
95°	18.1	61.9	360.4	169.8	109.9
97.5°	27.8	74.4	461.3	304.0	229.6
100°	39.0	97.4	496.7	447.3	337.4
102.5°	50.8	102.3	482.8	612.9	494.0
105°	62.6	103.7	457.8	745.8	654.0
107.5°	74.4	105.7	447.3	826.5	793.8
110°	87.0	115.5	401.4	846.7	880.1



TEST NUMBER: P234862

CATALOG NUMBER: CTA-F-2575-20L840-UNV-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.8	128.0	361.8	818.2	910.7
115°	109.9	139.1	339.5	762.5	888.4
117.5°	122.4	149.6	326.3	702.0	840.4
120°	134.3	160.0	320.0	648.4	784.8
122.5°	145.4	170.4	316.5	603.9	728.4
125°	156.5	180.2	314.5	567.0	679.7
127.5°	167.0	189.2	313.1	536.4	636.6
130°	177.4	198.3	311.7	508.6	599.0
132.5°	188.5	208.0	309.6	484.2	565.6
135°	199.0	217.1	308.2	461.3	534.3
137.5°	209.4	226.8	306.8	439.0	503.7
140°	219.1	235.2	305.4	417.4	474.5
142.5°	229.6	243.5	305.4	399.3	447.3
145°	240.0	251.8	304.7	381.3	423.0
147.5°	249.8	259.5	305.4	367.3	400.0
150°	259.5	267.2	306.1	355.5	381.3
152.5°	268.5	274.1	307.5	344.4	365.2
155°	276.9	281.1	308.9	336.7	352.0
157.5°	285.2	288.0	310.3	331.9	343.0
160°	292.2	294.3	311.0	327.7	336.0
162.5°	299.2	299.9	312.4	324.9	330.5
165°	305.4	304.7	314.5	322.8	326.3
167.5°	310.3	308.9	315.2	320.0	322.8
170°	314.5	313.1	316.5	319.3	320.7
172.5°	318.6	315.2	317.2	318.6	319.3
175°	320.7	316.5	317.9	317.9	317.9
177.5°	322.1	318.6	318.6	318.6	315.9
180°	318.6	318.6	318.6	318.6	318.6

(END OF REPORT)