

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: P234587

Luminaire Tested: **CTA-F-2575-50L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234587  
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-2575-50L840-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 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: 15380.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

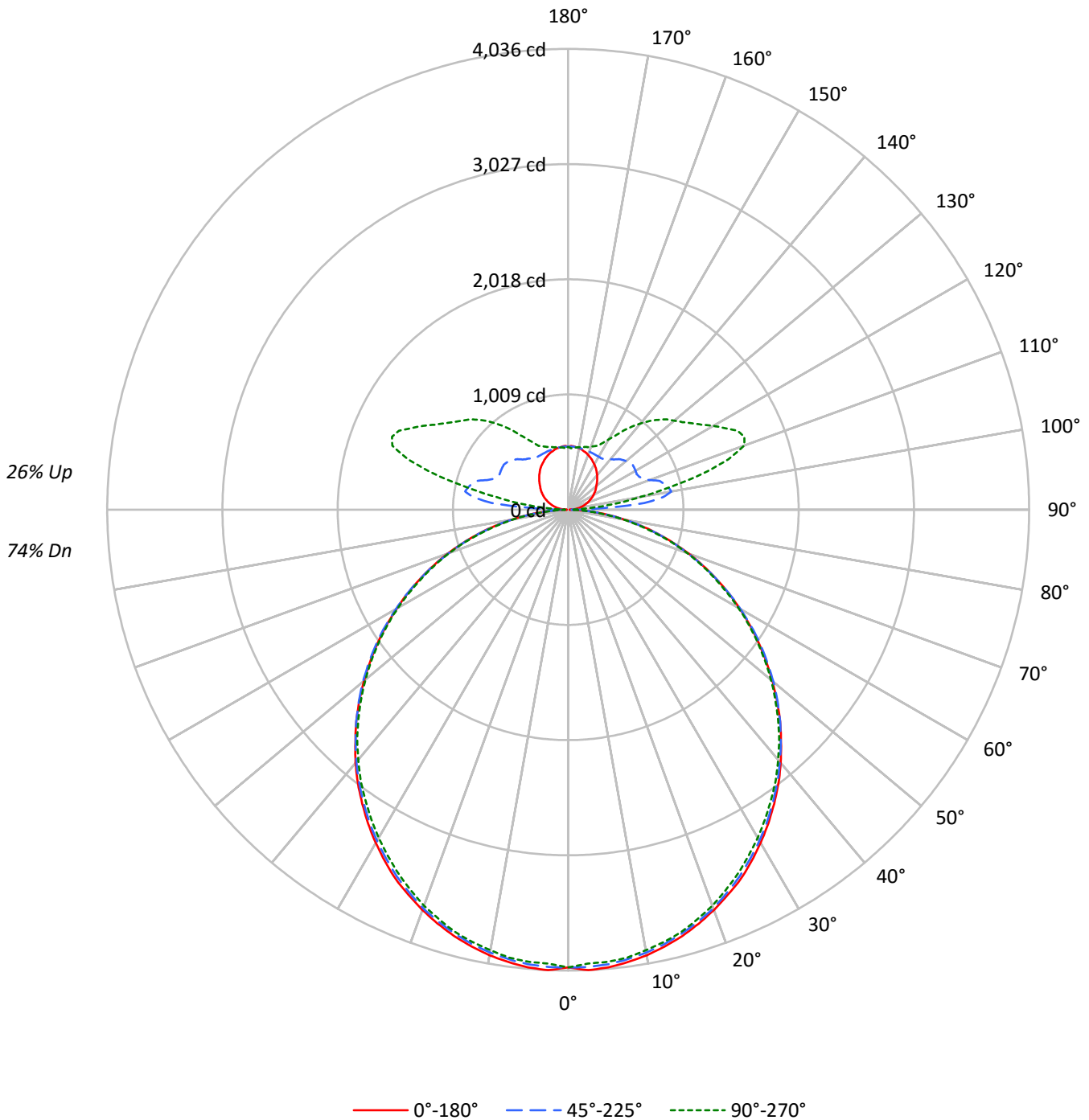
Input Watts (W): 140.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	8629	8629	8629
5°	8695	8636	8589
10°	8662	8608	8562
15°	8613	8565	8531
20°	8545	8510	8454
25°	8483	8424	8352
30°	8376	8322	8246
35°	8260	8212	8140
40°	8137	8102	8034
45°	7987	7987	7912
50°	7813	7854	7762
55°	7643	7700	7597
60°	7464	7504	7411
65°	7273	7273	7180
70°	7063	7005	6947
75°	6739	6689	6536
80°	6217	6217	5989
85°	5513	5285	4833



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.2	2.5
10°-20°	1082.8	7.0
20°-30°	1628.9	10.6
30°-40°	1950.0	12.7
40°-50°	2014.4	13.1
50°-60°	1821.2	11.8
60°-70°	1410.1	9.2
70°-80°	847.5	5.5
80°-90°	247.8	1.6
90°-100°	332.6	2.2
100°-110°	812.6	5.3
110°-120°	826.2	5.4
120°-130°	666.2	4.3
130°-140°	525.5	3.4
140°-150°	374.3	2.4
150°-160°	253.1	1.6
160°-170°	154.9	1.0
170°-180°	52.6	0.3
0°-30°	3090.9	20.1
0°-40°	5040.9	32.8
0°-60°	8876.5	57.7
0°-90°	11382.0	74.0
90°-120°	1971.4	12.8
90°-150°	3537.4	23.0
90°-180°	3998.0	26.0
0°-180°	15380.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4009	4009	4009	4009	4009	
5°	4024	3984	3996	3987	3975	382
15°	3865	3828	3844	3840	3828	1090
25°	3571	3532	3547	3526	3516	1644
35°	3143	3113	3125	3110	3097	1967
45°	2624	2608	2624	2608	2599	2022
55°	2036	2033	2052	2033	2024	1821
65°	1428	1434	1428	1416	1410	1414
75°	810	810	804	798	786	856
85°	223	226	214	202	196	240
90°	12	31	31	31	28	21
95°	52	147	670	333	226	54
105°	141	248	871	1382	1217	148
115°	217	318	685	1410	1636	216
125°	290	346	688	1128	1321	259
135°	358	391	627	966	1113	276
145°	428	446	541	740	847	267
155°	486	492	538	593	618	224
165°	529	529	544	566	569	150
175°	556	550	553	553	547	53
180°	550	550	550	550	550	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4008.6	4008.6	4008.6	4008.6	4008.6
2.5°	4036.2	3996.4	4008.6	4002.5	3978.1
5°	4023.9	3984.2	3996.4	3987.2	3975.0
7.5°	3996.4	3959.7	3971.9	3965.8	3956.7
10°	3962.8	3926.1	3938.3	3929.1	3916.9
12.5°	3916.9	3880.2	3895.5	3886.3	3877.2
15°	3864.9	3828.2	3843.5	3840.5	3828.2
17.5°	3800.7	3767.1	3782.4	3776.2	3761.0
20°	3730.4	3696.7	3715.1	3699.8	3690.6
22.5°	3650.9	3614.2	3632.5	3614.2	3605.0
25°	3571.4	3531.6	3546.9	3525.5	3516.3
27.5°	3473.5	3433.8	3449.1	3427.7	3418.5
30°	3369.6	3332.9	3348.2	3326.8	3317.6
32.5°	3259.5	3225.9	3241.2	3219.7	3210.6
35°	3143.3	3112.7	3125.0	3109.7	3097.4
37.5°	3024.1	2993.5	3008.8	2990.4	2984.3
40°	2895.6	2871.2	2883.4	2865.1	2858.9
42.5°	2758.0	2739.7	2755.0	2739.7	2733.6
45°	2623.5	2608.2	2623.5	2608.2	2599.0
47.5°	2479.8	2467.6	2485.9	2467.6	2458.4
50°	2333.0	2330.0	2345.2	2330.0	2317.7
52.5°	2186.2	2183.2	2198.5	2183.2	2171.0
55°	2036.4	2033.4	2051.7	2033.4	2024.2
57.5°	1886.6	1886.6	1898.8	1880.5	1874.4
60°	1733.7	1736.8	1742.9	1727.6	1721.5
62.5°	1583.9	1583.9	1586.9	1577.8	1562.5
65°	1427.9	1434.1	1427.9	1415.7	1409.6
67.5°	1275.1	1278.1	1268.9	1262.8	1259.8
70°	1122.2	1122.2	1113.0	1109.9	1103.8
72.5°	966.2	969.3	957.1	950.9	947.9
75°	810.3	810.3	804.2	798.1	785.8
77.5°	657.4	654.3	651.3	636.0	632.9
80°	501.5	507.6	501.5	486.2	483.1
82.5°	360.8	363.9	354.7	339.4	336.3
85°	223.2	226.3	214.0	201.8	195.7
87.5°	94.8	97.8	82.6	73.4	70.3
90°	12.2	30.6	30.6	30.6	27.5
92.5°	36.7	100.9	296.6	97.8	73.4
95°	52.0	146.8	669.6	333.3	226.3
97.5°	79.5	174.3	837.8	562.6	434.2
100°	100.9	220.2	917.3	816.4	642.1
102.5°	119.2	235.4	899.0	1119.1	908.1
105°	140.7	247.7	871.4	1382.1	1217.0
107.5°	159.0	263.0	837.8	1525.8	1470.7
110°	180.4	287.4	758.3	1556.4	1638.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	198.7	305.8	706.3	1504.4	1669.5
115°	217.1	318.0	684.9	1409.6	1635.9
117.5°	238.5	327.2	675.7	1314.8	1547.2
120°	253.8	330.2	681.9	1229.2	1467.7
122.5°	272.1	336.3	684.9	1174.2	1385.1
125°	290.5	345.5	688.0	1128.3	1320.9
127.5°	305.8	348.6	678.8	1091.6	1259.8
130°	321.1	360.8	663.5	1061.0	1213.9
132.5°	339.4	373.0	645.2	1015.2	1171.1
135°	357.7	391.4	626.8	966.2	1113.0
137.5°	376.1	406.7	596.2	914.2	1054.9
140°	394.4	418.9	577.9	859.2	984.6
142.5°	409.7	434.2	565.7	804.2	917.3
145°	428.1	446.4	541.2	740.0	847.0
147.5°	443.4	458.7	535.1	681.9	770.5
150°	458.7	470.9	535.1	648.2	712.4
152.5°	470.9	480.1	535.1	605.4	660.5
155°	486.2	492.3	538.2	593.2	617.7
157.5°	498.4	501.5	538.2	581.0	602.4
160°	510.6	513.7	541.2	574.8	587.1
162.5°	522.9	522.9	544.3	565.7	574.8
165°	529.0	529.0	544.3	565.7	568.7
167.5°	541.2	535.1	547.3	556.5	559.6
170°	547.3	541.2	550.4	556.5	556.5
172.5°	550.4	550.4	550.4	553.4	550.4
175°	556.5	550.4	553.4	553.4	547.3
177.5°	559.6	550.4	553.4	553.4	538.2
180°	550.4	550.4	550.4	550.4	550.4

(END OF REPORT)