

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: P234574

Luminaire Tested: **CTA-F-2575-40L830-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234574  
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-2575-40L830-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
4000 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: 7869.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 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

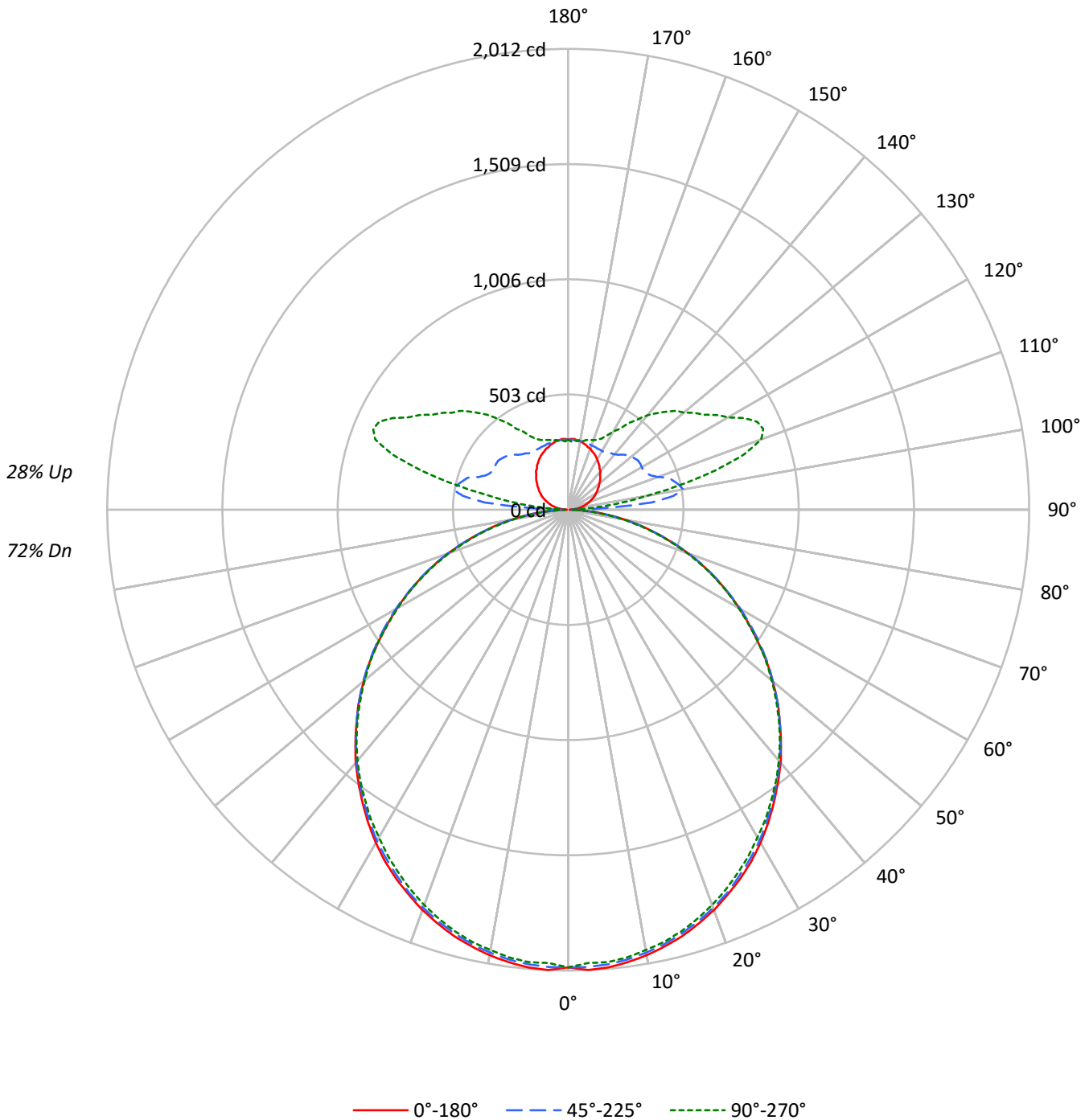
Input Watts (W): 74  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6452	6452	6452
5°	6501	6458	6426
10°	6475	6438	6400
15°	6441	6403	6371
20°	6390	6357	6310
25°	6331	6290	6235
30°	6259	6223	6159
35°	6163	6133	6095
40°	6079	6055	6031
45°	5963	5963	5936
50°	5854	5864	5825
55°	5705	5749	5705
60°	5576	5613	5551
65°	5436	5466	5407
70°	5265	5301	5192
75°	4967	5014	4894
80°	4684	4613	4470
85°	4060	3990	3564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.0	2.4
10°-20°	539.7	6.9
20°-30°	811.8	10.3
30°-40°	971.8	12.3
40°-50°	1005.1	12.8
50°-60°	909.0	11.6
60°-70°	704.0	8.9
70°-80°	422.0	5.4
80°-90°	123.4	1.6
90°-100°	180.7	2.3
100°-110°	446.9	5.7
110°-120°	454.5	5.8
120°-130°	364.6	4.6
130°-140°	286.8	3.6
140°-150°	205.4	2.6
150°-160°	139.8	1.8
160°-170°	85.6	1.1
170°-180°	29.1	0.4
0°-30°	1540.5	19.6
0°-40°	2512.2	31.9
0°-60°	4426.3	56.2
0°-90°	5675.7	72.1
90°-120°	1082.1	13.8
90°-150°	1938.8	24.6
90°-180°	2193.0	27.9
0°-180°	7869.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	2006	1986	1992	1986	1983	190
15°	1927	1910	1915	1914	1906	543
25°	1777	1760	1765	1756	1750	819
35°	1564	1552	1556	1548	1546	979
45°	1306	1300	1306	1302	1300	1008
55°	1014	1015	1021	1015	1014	908
65°	712	714	715	708	708	704
75°	398	404	402	394	392	423
85°	110	112	108	100	96	119
90°	8	15	15	15	14	11
95°	27	79	365	183	123	28
105°	75	133	479	764	665	80
115°	119	173	377	773	910	118
125°	158	188	373	617	723	142
135°	198	215	340	525	606	153
145°	236	246	300	406	462	148
155°	269	271	296	327	342	124
165°	294	292	300	312	315	83
175°	310	306	306	306	304	29
180°	306	306	306	306	306	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1998.1	1998.1	1998.1	1998.1	1998.1
2.5°	2011.5	1992.3	1998.1	1994.2	1980.8
5°	2005.8	1986.5	1992.3	1986.5	1982.7
7.5°	1992.3	1975.0	1980.8	1975.0	1971.2
10°	1975.0	1955.8	1963.5	1957.7	1951.9
12.5°	1951.9	1934.6	1942.3	1936.5	1932.7
15°	1926.9	1909.6	1915.4	1913.5	1905.8
17.5°	1894.2	1878.8	1884.6	1882.7	1873.1
20°	1859.6	1842.3	1850.0	1844.2	1836.5
22.5°	1819.2	1801.9	1811.5	1801.9	1796.2
25°	1776.9	1759.6	1765.4	1755.8	1750.0
27.5°	1730.8	1713.5	1719.2	1709.6	1703.8
30°	1678.8	1663.5	1669.2	1657.7	1651.9
32.5°	1623.1	1609.6	1613.5	1603.8	1601.9
35°	1563.5	1551.9	1555.8	1548.1	1546.2
37.5°	1503.8	1492.3	1496.2	1490.4	1490.4
40°	1442.3	1430.8	1436.5	1432.7	1430.8
42.5°	1375.0	1367.3	1371.2	1369.2	1367.3
45°	1305.8	1300.0	1305.8	1301.9	1300.0
47.5°	1238.5	1230.8	1238.5	1234.6	1230.8
50°	1165.4	1161.5	1167.3	1163.5	1159.6
52.5°	1092.3	1088.5	1096.2	1092.3	1088.5
55°	1013.5	1015.4	1021.2	1015.4	1013.5
57.5°	938.5	940.4	946.2	942.3	934.6
60°	863.5	865.4	869.2	865.4	859.6
62.5°	786.5	788.5	790.4	786.5	784.6
65°	711.5	713.5	715.4	707.7	707.7
67.5°	634.6	638.5	636.5	630.8	628.8
70°	557.7	559.6	561.5	553.8	550.0
72.5°	475.0	482.7	478.8	471.2	469.2
75°	398.1	403.8	401.9	394.2	392.3
77.5°	326.9	326.9	323.1	319.2	315.4
80°	251.9	251.9	248.1	244.2	240.4
82.5°	178.8	180.8	176.9	171.2	167.3
85°	109.6	111.5	107.7	100.0	96.2
87.5°	46.2	48.1	42.3	36.5	34.6
90°	7.7	15.4	15.4	15.4	13.5
92.5°	19.2	53.8	148.1	51.9	38.5
95°	26.9	78.8	365.4	182.7	123.1
97.5°	40.4	94.2	463.5	309.6	236.5
100°	53.8	117.3	509.6	446.2	348.1
102.5°	65.4	128.8	496.2	619.2	503.8
105°	75.0	132.7	478.8	763.5	665.4
107.5°	86.5	140.4	461.5	846.2	805.8
110°	96.2	153.8	417.3	859.6	896.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.7	163.5	390.4	830.8	921.2
115°	119.2	173.1	376.9	773.1	909.6
117.5°	130.8	176.9	369.2	725.0	865.4
120°	138.5	180.8	371.2	678.8	805.8
122.5°	150.0	182.7	373.1	646.2	769.2
125°	157.7	188.5	373.1	617.3	723.1
127.5°	169.2	192.3	367.3	596.2	694.2
130°	176.9	198.1	359.6	576.9	659.6
132.5°	188.5	205.8	351.9	553.8	638.5
135°	198.1	215.4	340.4	525.0	605.8
137.5°	205.8	223.1	325.0	498.1	571.2
140°	219.2	230.8	315.4	467.3	538.5
142.5°	225.0	238.5	309.6	436.5	496.2
145°	236.5	246.2	300.0	405.8	461.5
147.5°	244.2	253.8	296.2	376.9	417.3
150°	253.8	259.6	296.2	357.7	394.2
152.5°	261.5	267.3	296.2	334.6	363.5
155°	269.2	271.2	296.2	326.9	342.3
157.5°	275.0	276.9	298.1	319.2	330.8
160°	282.7	282.7	298.1	317.3	323.1
162.5°	286.5	286.5	301.9	313.5	319.2
165°	294.2	292.3	300.0	311.5	315.4
167.5°	298.1	296.2	303.8	309.6	307.7
170°	303.8	300.0	303.8	307.7	309.6
172.5°	305.8	301.9	305.8	307.7	301.9
175°	309.6	305.8	305.8	305.8	303.8
177.5°	309.6	305.8	305.8	305.8	298.1
180°	305.8	305.8	305.8	305.8	305.8

(END OF REPORT)