

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: P234573

Luminaire Tested: **CTA-F-2575-40L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234573
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-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4170.6 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Direct

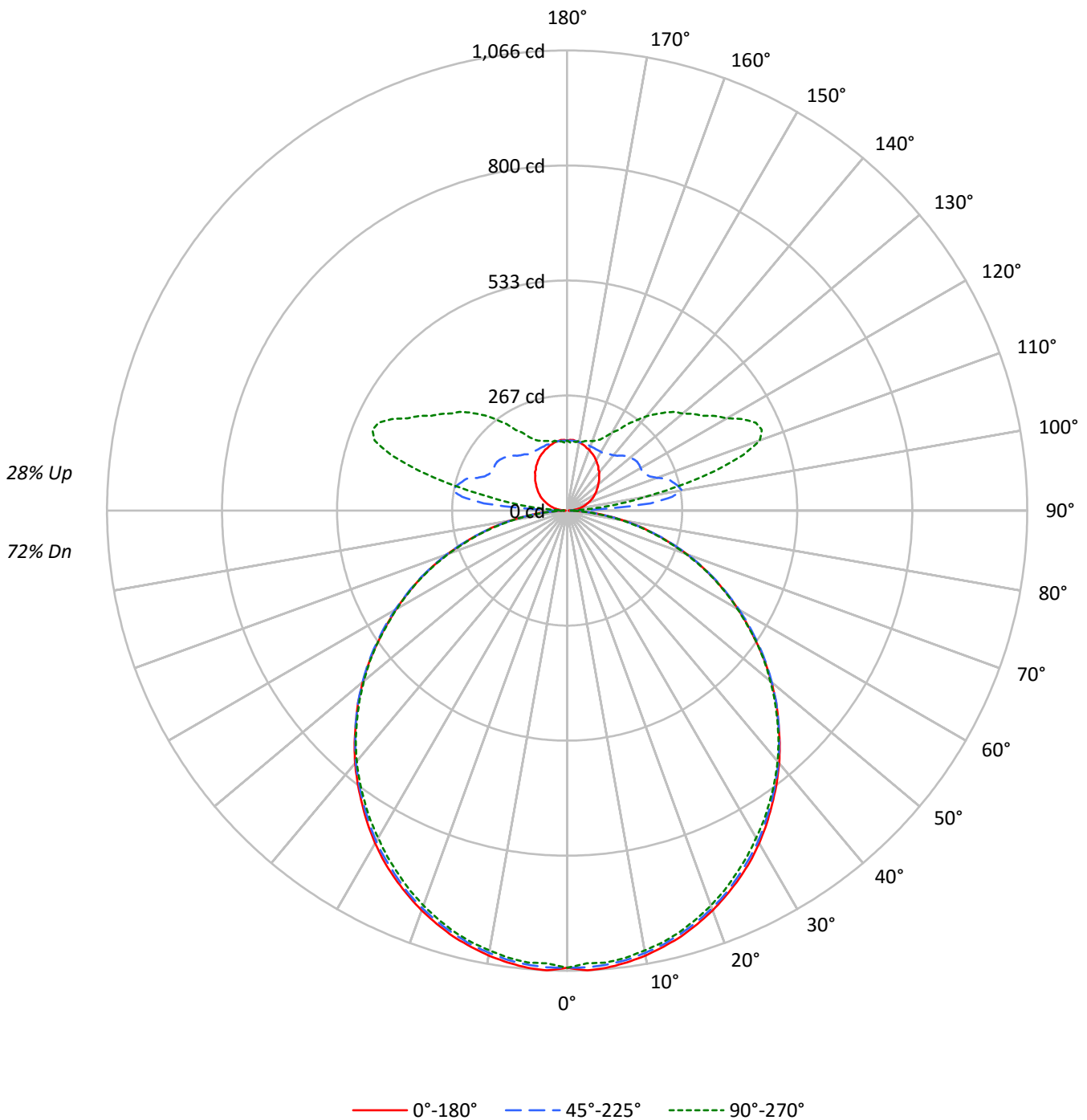
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	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°	6892	6845	6812
10°	6864	6824	6784
15°	6828	6787	6753
20°	6773	6738	6689
25°	6711	6667	6609
30°	6635	6597	6528
35°	6532	6501	6461
40°	6444	6419	6393
45°	6321	6321	6292
50°	6206	6216	6175
55°	6047	6093	6047
60°	5910	5950	5884
65°	5762	5794	5732
70°	5581	5619	5504
75°	5265	5315	5187
80°	4965	4890	4738
85°	4305	4231	3779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.4
10°-20°	286.0	6.9
20°-30°	430.3	10.3
30°-40°	515.0	12.3
40°-50°	532.7	12.8
50°-60°	481.8	11.6
60°-70°	373.2	8.9
70°-80°	223.6	5.4
80°-90°	65.4	1.6
90°-100°	95.8	2.3
100°-110°	236.9	5.7
110°-120°	240.9	5.8
120°-130°	193.2	4.6
130°-140°	152.0	3.6
140°-150°	108.9	2.6
150°-160°	74.1	1.8
160°-170°	45.4	1.1
170°-180°	15.4	0.4
0°-30°	816.4	19.6
0°-40°	1331.5	31.9
0°-60°	2345.9	56.2
0°-90°	3008.1	72.1
90°-120°	573.5	13.8
90°-150°	1027.6	24.6
90°-180°	1162.0	27.9
0°-180°	4170.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1063	1053	1056	1053	1051	101
15°	1021	1012	1015	1014	1010	288
25°	942	933	936	931	928	434
35°	829	822	825	820	820	519
45°	692	689	692	690	689	534
55°	537	538	541	538	537	481
65°	377	378	379	375	375	373
75°	211	214	213	209	208	224
85°	58	59	57	53	51	63
90°	4	8	8	8	7	6
95°	14	42	194	97	65	15
105°	40	70	254	405	353	42
115°	63	92	200	410	482	62
125°	84	100	198	327	383	75
135°	105	114	180	278	321	81
145°	125	130	159	215	245	78
155°	143	144	157	173	181	66
165°	156	155	159	165	167	44
175°	164	162	162	162	161	16
180°	162	162	162	162	162	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1066.1	1055.9	1059.0	1056.9	1049.8
5°	1063.1	1052.9	1055.9	1052.9	1050.8
7.5°	1055.9	1046.7	1049.8	1046.7	1044.7
10°	1046.7	1036.6	1040.6	1037.6	1034.5
12.5°	1034.5	1025.3	1029.4	1026.4	1024.3
15°	1021.3	1012.1	1015.2	1014.1	1010.1
17.5°	1003.9	995.8	998.8	997.8	992.7
20°	985.6	976.4	980.5	977.4	973.4
22.5°	964.2	955.0	960.1	955.0	952.0
25°	941.8	932.6	935.7	930.6	927.5
27.5°	917.3	908.1	911.2	906.1	903.0
30°	889.8	881.6	884.7	878.6	875.5
32.5°	860.2	853.1	855.1	850.0	849.0
35°	828.6	822.5	824.6	820.5	819.5
37.5°	797.0	790.9	793.0	789.9	789.9
40°	764.4	758.3	761.4	759.3	758.3
42.5°	728.7	724.7	726.7	725.7	724.7
45°	692.1	689.0	692.1	690.0	689.0
47.5°	656.4	652.3	656.4	654.3	652.3
50°	617.7	615.6	618.7	616.6	614.6
52.5°	578.9	576.9	581.0	578.9	576.9
55°	537.1	538.2	541.2	538.2	537.1
57.5°	497.4	498.4	501.5	499.4	495.3
60°	457.6	458.7	460.7	458.7	455.6
62.5°	416.9	417.9	418.9	416.9	415.8
65°	377.1	378.1	379.2	375.1	375.1
67.5°	336.3	338.4	337.4	334.3	333.3
70°	295.6	296.6	297.6	293.5	291.5
72.5°	251.7	255.8	253.8	249.7	248.7
75°	211.0	214.0	213.0	208.9	207.9
77.5°	173.3	173.3	171.2	169.2	167.2
80°	133.5	133.5	131.5	129.4	127.4
82.5°	94.8	95.8	93.8	90.7	88.7
85°	58.1	59.1	57.1	53.0	51.0
87.5°	24.5	25.5	22.4	19.4	18.3
90°	4.1	8.2	8.2	8.2	7.1
92.5°	10.2	28.5	78.5	27.5	20.4
95°	14.3	41.8	193.7	96.8	65.2
97.5°	21.4	49.9	245.6	164.1	125.4
100°	28.5	62.2	270.1	236.5	184.5
102.5°	34.7	68.3	263.0	328.2	267.0
105°	39.7	70.3	253.8	404.6	352.7
107.5°	45.9	74.4	244.6	448.5	427.1
110°	51.0	81.5	221.2	455.6	475.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.1	86.6	206.9	440.3	488.2
115°	63.2	91.7	199.8	409.7	482.1
117.5°	69.3	93.8	195.7	384.2	458.7
120°	73.4	95.8	196.7	359.8	427.1
122.5°	79.5	96.8	197.7	342.5	407.7
125°	83.6	99.9	197.7	327.2	383.2
127.5°	89.7	101.9	194.7	316.0	367.9
130°	93.8	105.0	190.6	305.8	349.6
132.5°	99.9	109.1	186.5	293.5	338.4
135°	105.0	114.2	180.4	278.2	321.1
137.5°	109.1	118.2	172.2	264.0	302.7
140°	116.2	122.3	167.2	247.7	285.4
142.5°	119.2	126.4	164.1	231.4	263.0
145°	125.4	130.5	159.0	215.1	244.6
147.5°	129.4	134.5	157.0	199.8	221.2
150°	134.5	137.6	157.0	189.6	208.9
152.5°	138.6	141.7	157.0	177.3	192.6
155°	142.7	143.7	157.0	173.3	181.4
157.5°	145.7	146.8	158.0	169.2	175.3
160°	149.8	149.8	158.0	168.2	171.2
162.5°	151.9	151.9	160.0	166.1	169.2
165°	155.9	154.9	159.0	165.1	167.2
167.5°	158.0	157.0	161.0	164.1	163.1
170°	161.0	159.0	161.0	163.1	164.1
172.5°	162.1	160.0	162.1	163.1	160.0
175°	164.1	162.1	162.1	162.1	161.0
177.5°	164.1	162.1	162.1	162.1	158.0
180°	162.1	162.1	162.1	162.1	162.1

(END OF REPORT)