

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: P234581

Luminaire Tested: **CTA-F-2575-50L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234581
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-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

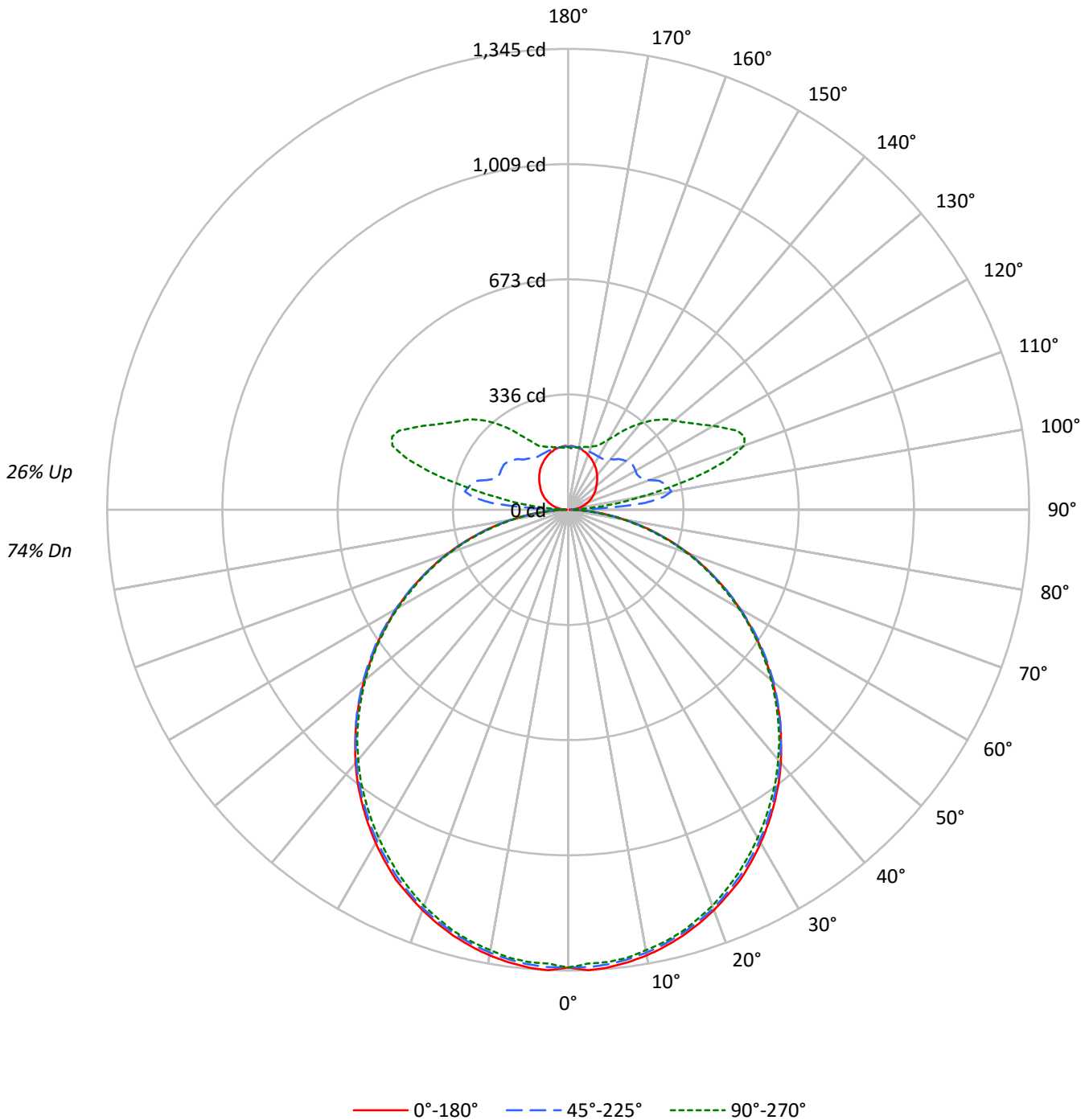
Lumens per Lamp: N/A
Luminaire Lumens: 5126.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47.9
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	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	8635	8589
10°	8662	8609	8561
15°	8613	8566	8532
20°	8546	8511	8454
25°	8483	8424	8352
30°	8376	8323	8247
35°	8260	8212	8140
40°	8137	8102	8034
45°	7987	7987	7912
50°	7813	7853	7762
55°	7643	7700	7596
60°	7464	7504	7411
65°	7274	7274	7180
70°	7064	7005	6946
75°	6739	6689	6535
80°	6218	6218	5987
85°	5513	5283	4831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	2.5
10°-20°	360.9	7.0
20°-30°	543.0	10.6
30°-40°	650.0	12.7
40°-50°	671.4	13.1
50°-60°	607.1	11.8
60°-70°	470.0	9.2
70°-80°	282.5	5.5
80°-90°	82.6	1.6
90°-100°	110.9	2.2
100°-110°	270.9	5.3
110°-120°	275.4	5.4
120°-130°	222.1	4.3
130°-140°	175.2	3.4
140°-150°	124.8	2.4
150°-160°	84.4	1.6
160°-170°	51.6	1.0
170°-180°	17.5	0.3
0°-30°	1030.3	20.1
0°-40°	1680.3	32.8
0°-60°	2958.8	57.7
0°-90°	3794.0	74.0
90°-120°	657.2	12.8
90°-150°	1179.2	23.0
90°-180°	1333.0	26.0
0°-180°	5126.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1341	1328	1332	1329	1325	127
15°	1288	1276	1281	1280	1276	363
25°	1190	1177	1182	1175	1172	548
35°	1048	1038	1042	1037	1032	656
45°	874	869	874	869	866	674
55°	679	678	684	678	675	607
65°	476	478	476	472	470	471
75°	270	270	268	266	262	285
85°	74	75	71	67	65	80
90°	4	10	10	10	9	7
95°	17	49	223	111	75	18
105°	47	83	290	461	406	49
115°	72	106	228	470	545	72
125°	97	115	229	376	440	86
135°	119	130	209	322	371	92
145°	143	149	180	247	282	89
155°	162	164	179	198	206	75
165°	176	176	181	189	190	50
175°	186	184	184	184	182	18
180°	184	184	184	184	184	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.2	1336.2	1336.2	1336.2	1336.2
2.5°	1345.4	1332.1	1336.2	1334.2	1326.0
5°	1341.3	1328.1	1332.1	1329.1	1325.0
7.5°	1332.1	1319.9	1324.0	1321.9	1318.9
10°	1320.9	1308.7	1312.8	1309.7	1305.6
12.5°	1305.6	1293.4	1298.5	1295.4	1292.4
15°	1288.3	1276.1	1281.2	1280.2	1276.1
17.5°	1266.9	1255.7	1260.8	1258.7	1253.7
20°	1243.5	1232.2	1238.4	1233.3	1230.2
22.5°	1217.0	1204.7	1210.8	1204.7	1201.7
25°	1190.5	1177.2	1182.3	1175.2	1172.1
27.5°	1157.8	1144.6	1149.7	1142.6	1139.5
30°	1123.2	1111.0	1116.1	1108.9	1105.9
32.5°	1086.5	1075.3	1080.4	1073.2	1070.2
35°	1047.8	1037.6	1041.7	1036.6	1032.5
37.5°	1008.0	997.8	1002.9	996.8	994.8
40°	965.2	957.1	961.1	955.0	953.0
42.5°	919.3	913.2	918.3	913.2	911.2
45°	874.5	869.4	874.5	869.4	866.3
47.5°	826.6	822.5	828.6	822.5	819.5
50°	777.7	776.7	781.7	776.7	772.6
52.5°	728.7	727.7	732.8	727.7	723.7
55°	678.8	677.8	683.9	677.8	674.7
57.5°	628.9	628.9	632.9	626.8	624.8
60°	577.9	578.9	581.0	575.9	573.8
62.5°	528.0	528.0	529.0	525.9	520.8
65°	476.0	478.0	476.0	471.9	469.9
67.5°	425.0	426.0	423.0	420.9	419.9
70°	374.1	374.1	371.0	370.0	367.9
72.5°	322.1	323.1	319.0	317.0	316.0
75°	270.1	270.1	268.1	266.0	261.9
77.5°	219.1	218.1	217.1	212.0	211.0
80°	167.2	169.2	167.2	162.1	161.0
82.5°	120.3	121.3	118.2	113.1	112.1
85°	74.4	75.4	71.3	67.3	65.2
87.5°	31.6	32.6	27.5	24.5	23.4
90°	4.1	10.2	10.2	10.2	9.2
92.5°	12.2	33.6	98.9	32.6	24.5
95°	17.3	48.9	223.2	111.1	75.4
97.5°	26.5	58.1	279.3	187.5	144.7
100°	33.6	73.4	305.8	272.1	214.0
102.5°	39.7	78.5	299.7	373.0	302.7
105°	46.9	82.6	290.5	460.7	405.7
107.5°	53.0	87.7	279.3	508.6	490.2
110°	60.1	95.8	252.8	518.8	546.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.2	101.9	235.4	501.5	556.5
115°	72.4	106.0	228.3	469.9	545.3
117.5°	79.5	109.1	225.2	438.3	515.7
120°	84.6	110.1	227.3	409.7	489.2
122.5°	90.7	112.1	228.3	391.4	461.7
125°	96.8	115.2	229.3	376.1	440.3
127.5°	101.9	116.2	226.3	363.9	419.9
130°	107.0	120.3	221.2	353.7	404.6
132.5°	113.1	124.3	215.1	338.4	390.4
135°	119.2	130.5	208.9	322.1	371.0
137.5°	125.4	135.6	198.7	304.7	351.6
140°	131.5	139.6	192.6	286.4	328.2
142.5°	136.6	144.7	188.6	268.1	305.8
145°	142.7	148.8	180.4	246.7	282.3
147.5°	147.8	152.9	178.4	227.3	256.8
150°	152.9	157.0	178.4	216.1	237.5
152.5°	157.0	160.0	178.4	201.8	220.2
155°	162.1	164.1	179.4	197.7	205.9
157.5°	166.1	167.2	179.4	193.7	200.8
160°	170.2	171.2	180.4	191.6	195.7
162.5°	174.3	174.3	181.4	188.6	191.6
165°	176.3	176.3	181.4	188.6	189.6
167.5°	180.4	178.4	182.4	185.5	186.5
170°	182.4	180.4	183.5	185.5	185.5
172.5°	183.5	183.5	183.5	184.5	183.5
175°	185.5	183.5	184.5	184.5	182.4
177.5°	186.5	183.5	184.5	184.5	179.4
180°	183.5	183.5	183.5	183.5	183.5

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