

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: P234572

Luminaire Tested: **CTA-F-2575-40L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234572
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-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

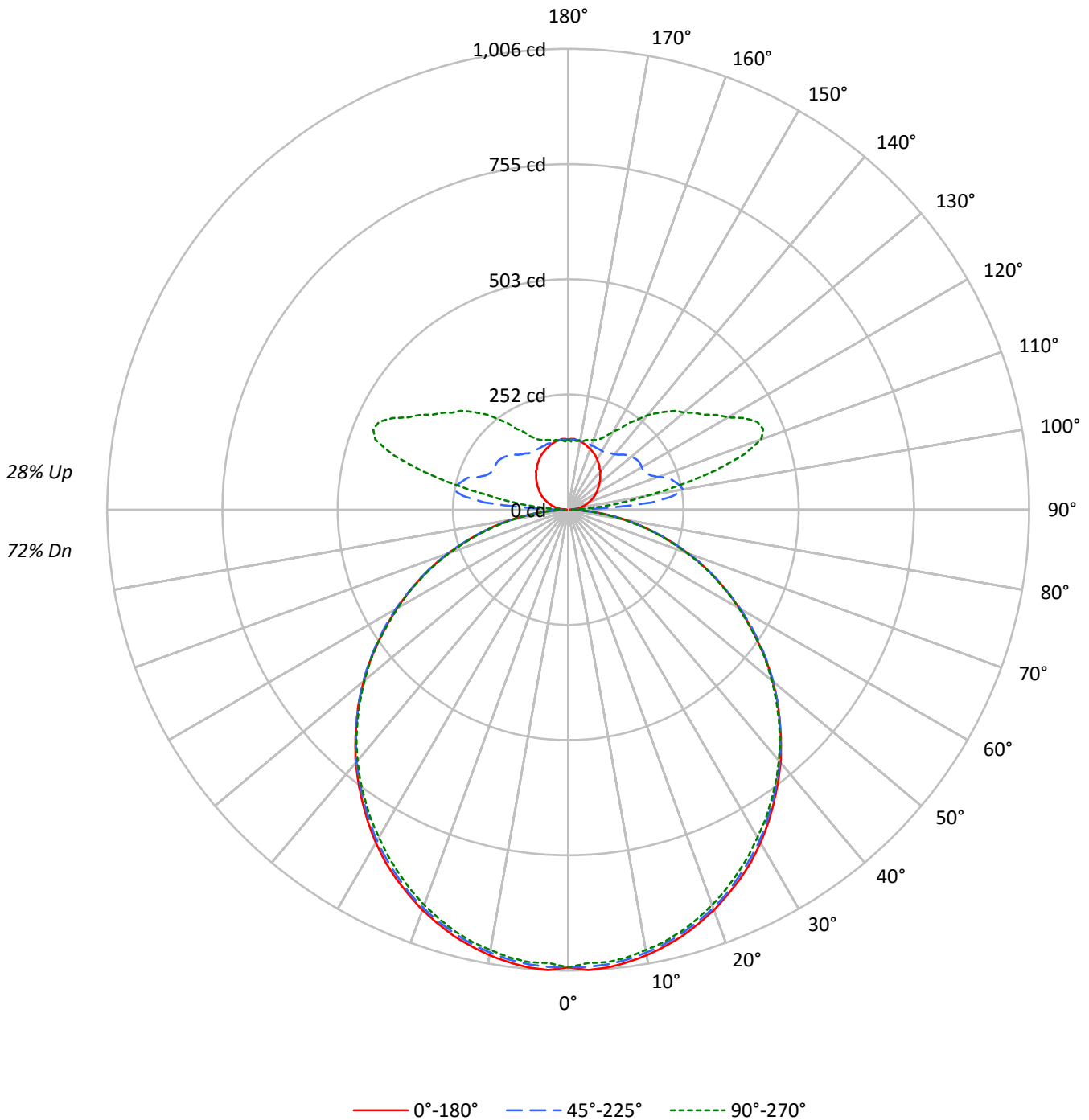
Lumens per Lamp: N/A
Luminaire Lumens: 3934.5 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P234572
CATALOG NUMBER: CTA-F-2575-40L830-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P234572

CATALOG NUMBER: CTA-F-2575-40L830-UNV-4

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°	6451	6451	6451
5°	6501	6458	6426
10°	6475	6437	6400
15°	6442	6403	6371
20°	6390	6357	6311
25°	6331	6290	6235
30°	6259	6223	6159
35°	6163	6133	6095
40°	6080	6055	6031
45°	5963	5963	5936
50°	5854	5864	5825
55°	5705	5749	5705
60°	5576	5613	5551
65°	5437	5466	5406
70°	5264	5302	5192
75°	4965	5015	4895
80°	4686	4611	4470
85°	4060	3986	3564



TEST NUMBER: P234572

CATALOG NUMBER: CTA-F-2575-40L830-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	2.4
10°-20°	269.8	6.9
20°-30°	405.9	10.3
30°-40°	485.9	12.3
40°-50°	502.5	12.8
50°-60°	454.5	11.6
60°-70°	352.0	8.9
70°-80°	211.0	5.4
80°-90°	61.7	1.6
90°-100°	90.3	2.3
100°-110°	223.4	5.7
110°-120°	227.3	5.8
120°-130°	182.3	4.6
130°-140°	143.4	3.6
140°-150°	102.7	2.6
150°-160°	69.9	1.8
160°-170°	42.8	1.1
170°-180°	14.6	0.4
0°-30°	770.2	19.6
0°-40°	1256.1	31.9
0°-60°	2213.1	56.2
0°-90°	2837.9	72.1
90°-120°	541.0	13.8
90°-150°	969.4	24.6
90°-180°	1097.0	27.9
0°-180°	3934.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	1003	993	996	993	991	95
15°	964	955	958	957	953	272
25°	888	880	883	878	875	409
35°	782	776	778	774	773	489
45°	653	650	653	651	650	504
55°	507	508	511	508	507	454
65°	356	357	358	354	354	352
75°	199	202	201	197	196	212
85°	55	56	54	50	48	59
90°	4	8	8	8	7	6
95°	14	39	183	91	62	14
105°	38	66	239	382	333	40
115°	60	86	188	386	455	59
125°	79	94	186	309	362	71
135°	99	108	170	262	303	76
145°	118	123	150	203	231	74
155°	135	136	148	164	171	62
165°	147	146	150	156	158	41
175°	155	153	153	153	152	15
180°	153	153	153	153	153	



TEST NUMBER: P234572

CATALOG NUMBER: CTA-F-2575-40L830-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.0	999.0	999.0	999.0	999.0
2.5°	1005.8	996.2	999.0	997.1	990.4
5°	1002.9	993.3	996.2	993.3	991.3
7.5°	996.2	987.5	990.4	987.5	985.6
10°	987.5	977.9	981.7	978.8	976.0
12.5°	976.0	967.3	971.2	968.3	966.3
15°	963.5	954.8	957.7	956.7	952.9
17.5°	947.1	939.4	942.3	941.3	936.5
20°	929.8	921.2	925.0	922.1	918.3
22.5°	909.6	901.0	905.8	901.0	898.1
25°	888.5	879.8	882.7	877.9	875.0
27.5°	865.4	856.7	859.6	854.8	851.9
30°	839.4	831.7	834.6	828.8	826.0
32.5°	811.5	804.8	806.7	801.9	801.0
35°	781.7	776.0	777.9	774.0	773.1
37.5°	751.9	746.2	748.1	745.2	745.2
40°	721.2	715.4	718.3	716.3	715.4
42.5°	687.5	683.7	685.6	684.6	683.7
45°	652.9	650.0	652.9	651.0	650.0
47.5°	619.2	615.4	619.2	617.3	615.4
50°	582.7	580.8	583.7	581.7	579.8
52.5°	546.2	544.2	548.1	546.2	544.2
55°	506.7	507.7	510.6	507.7	506.7
57.5°	469.2	470.2	473.1	471.2	467.3
60°	431.7	432.7	434.6	432.7	429.8
62.5°	393.3	394.2	395.2	393.3	392.3
65°	355.8	356.7	357.7	353.8	353.8
67.5°	317.3	319.2	318.3	315.4	314.4
70°	278.8	279.8	280.8	276.9	275.0
72.5°	237.5	241.3	239.4	235.6	234.6
75°	199.0	201.9	201.0	197.1	196.2
77.5°	163.5	163.5	161.5	159.6	157.7
80°	126.0	126.0	124.0	122.1	120.2
82.5°	89.4	90.4	88.5	85.6	83.7
85°	54.8	55.8	53.8	50.0	48.1
87.5°	23.1	24.0	21.2	18.3	17.3
90°	3.8	7.7	7.7	7.7	6.7
92.5°	9.6	26.9	74.0	26.0	19.2
95°	13.5	39.4	182.7	91.3	61.5
97.5°	20.2	47.1	231.7	154.8	118.3
100°	26.9	58.7	254.8	223.1	174.0
102.5°	32.7	64.4	248.1	309.6	251.9
105°	37.5	66.3	239.4	381.7	332.7
107.5°	43.3	70.2	230.8	423.1	402.9
110°	48.1	76.9	208.7	429.8	448.1



TEST NUMBER: P234572

CATALOG NUMBER: CTA-F-2575-40L830-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.8	81.7	195.2	415.4	460.6
115°	59.6	86.5	188.5	386.5	454.8
117.5°	65.4	88.5	184.6	362.5	432.7
120°	69.2	90.4	185.6	339.4	402.9
122.5°	75.0	91.3	186.5	323.1	384.6
125°	78.8	94.2	186.5	308.7	361.5
127.5°	84.6	96.2	183.7	298.1	347.1
130°	88.5	99.0	179.8	288.5	329.8
132.5°	94.2	102.9	176.0	276.9	319.2
135°	99.0	107.7	170.2	262.5	302.9
137.5°	102.9	111.5	162.5	249.0	285.6
140°	109.6	115.4	157.7	233.7	269.2
142.5°	112.5	119.2	154.8	218.3	248.1
145°	118.3	123.1	150.0	202.9	230.8
147.5°	122.1	126.9	148.1	188.5	208.7
150°	126.9	129.8	148.1	178.8	197.1
152.5°	130.8	133.7	148.1	167.3	181.7
155°	134.6	135.6	148.1	163.5	171.2
157.5°	137.5	138.5	149.0	159.6	165.4
160°	141.3	141.3	149.0	158.7	161.5
162.5°	143.3	143.3	151.0	156.7	159.6
165°	147.1	146.2	150.0	155.8	157.7
167.5°	149.0	148.1	151.9	154.8	153.8
170°	151.9	150.0	151.9	153.8	154.8
172.5°	152.9	151.0	152.9	153.8	151.0
175°	154.8	152.9	152.9	152.9	151.9
177.5°	154.8	152.9	152.9	152.9	149.0
180°	152.9	152.9	152.9	152.9	152.9

(END OF REPORT)