

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: P234555

Luminaire Tested: **CTA-F-0100-40L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-40L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (1008) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12279.6 lumens
Efficiency: N/A
Efficacy: 93.9 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: Direct

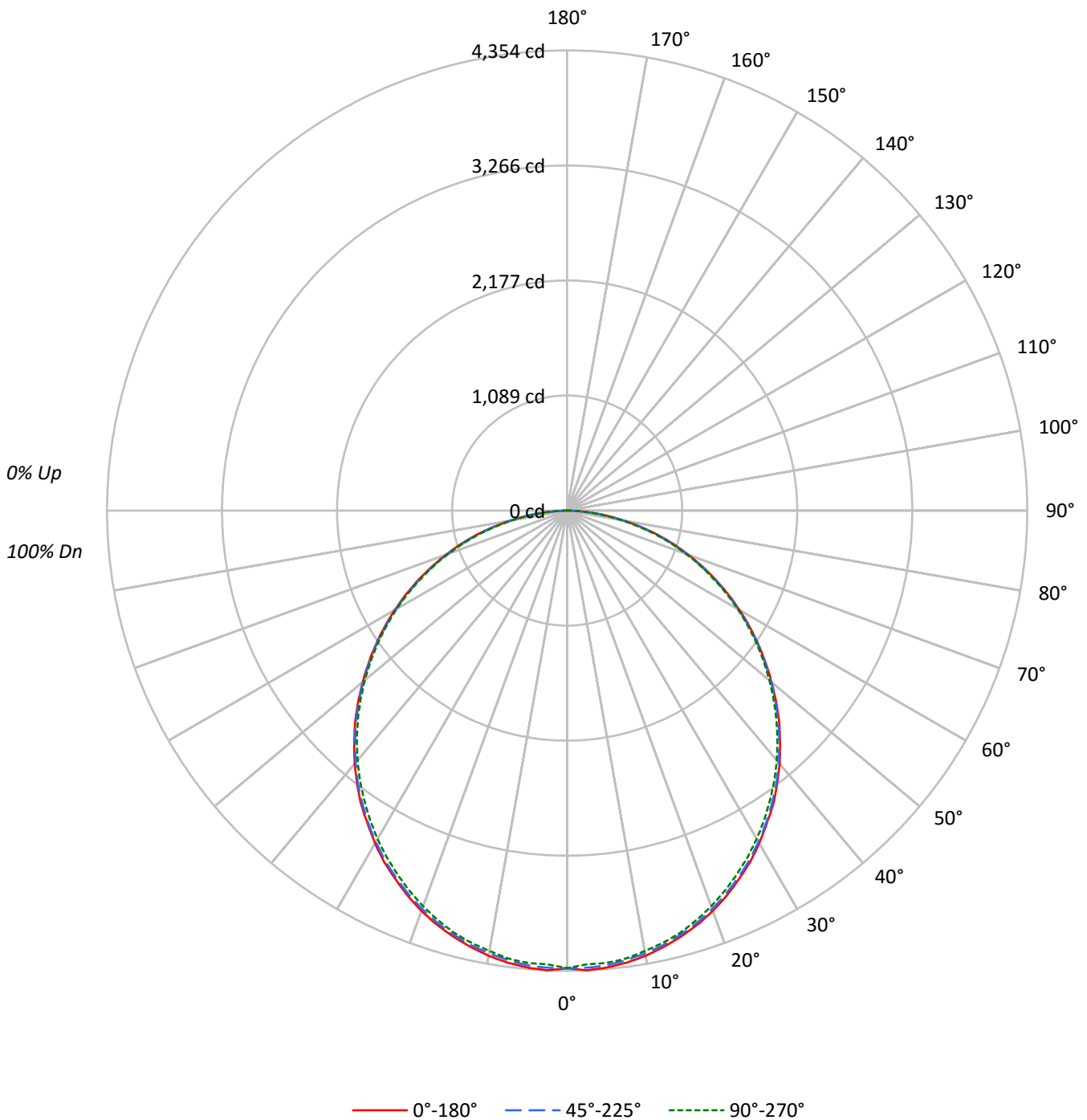
Input Watts (W): 130.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9320	9320	9320
5°	9376	9329	9283
10°	9350	9297	9250
15°	9295	9254	9213
20°	9232	9190	9127
25°	9136	9100	9020
30°	9037	8999	8915
35°	8927	8879	8790
40°	8790	8747	8670
45°	8638	8601	8526
50°	8458	8437	8366
55°	8297	8262	8205
60°	8109	8070	8017
65°	7912	7834	7787
70°	7660	7563	7525
75°	7375	7223	7146
80°	6709	6672	6482
85°	5891	5663	5135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.4	3.3
10°-20°	1169.2	9.5
20°-30°	1759.6	14.3
30°-40°	2105.2	17.1
40°-50°	2171.1	17.7
50°-60°	1962.6	16.0
60°-70°	1522.6	12.4
70°-80°	917.2	7.5
80°-90°	262.6	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3338.2	27.2
0°-40°	5443.4	44.3
0°-60°	9577.2	78.0
0°-90°	12279.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12279.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4330	4330	4330	4330	4330	
5°	4339	4299	4318	4305	4296	412
15°	4171	4131	4152	4143	4134	1177
25°	3847	3813	3831	3807	3798	1774
35°	3397	3360	3379	3351	3345	2123
45°	2838	2819	2825	2798	2801	2187
55°	2211	2205	2202	2183	2186	1975
65°	1553	1541	1538	1529	1529	1536
75°	887	871	868	865	859	932
85°	238	245	229	217	208	272
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4329.7	4329.7	4329.7	4329.7	4329.7
2.5°	4354.2	4314.4	4329.7	4323.6	4296.1
5°	4338.9	4299.1	4317.5	4305.2	4296.1
7.5°	4314.4	4274.7	4289.9	4280.8	4274.7
10°	4277.7	4234.9	4253.3	4244.1	4231.9
12.5°	4228.8	4189.0	4210.4	4195.2	4189.0
15°	4170.7	4130.9	4152.4	4143.2	4134.0
17.5°	4106.5	4066.7	4088.1	4079.0	4063.7
20°	4030.0	3990.3	4011.7	3993.4	3984.2
22.5°	3944.4	3904.7	3926.1	3904.7	3895.5
25°	3846.6	3812.9	3831.3	3806.8	3797.7
27.5°	3748.7	3709.0	3730.4	3705.9	3696.8
30°	3635.6	3598.9	3620.3	3589.7	3586.7
32.5°	3513.3	3482.7	3504.1	3476.6	3470.5
35°	3397.1	3360.4	3378.8	3351.2	3345.1
37.5°	3262.6	3232.0	3253.4	3219.8	3219.8
40°	3128.0	3103.6	3112.7	3082.2	3085.2
42.5°	2981.3	2962.9	2972.1	2944.6	2944.6
45°	2837.5	2819.2	2825.3	2797.8	2800.8
47.5°	2681.6	2669.4	2672.4	2648.0	2651.0
50°	2525.7	2516.5	2519.5	2495.1	2498.1
52.5°	2366.7	2360.5	2357.5	2336.1	2342.2
55°	2210.7	2204.6	2201.5	2183.2	2186.3
57.5°	2048.7	2042.5	2036.4	2021.1	2024.2
60°	1883.5	1880.5	1874.4	1862.1	1862.1
62.5°	1718.4	1712.3	1703.1	1697.0	1697.0
65°	1553.3	1541.1	1538.0	1528.8	1528.8
67.5°	1385.1	1379.0	1369.8	1366.8	1363.7
70°	1217.0	1207.8	1201.7	1198.6	1195.6
72.5°	1054.9	1045.7	1036.6	1030.4	1027.4
75°	886.7	871.4	868.4	865.3	859.2
77.5°	712.4	706.3	700.2	694.1	684.9
80°	541.2	547.3	538.2	529.0	522.9
82.5°	388.3	394.4	379.2	370.0	363.9
85°	238.5	244.6	229.3	217.1	207.9
87.5°	104.0	107.0	85.6	76.4	67.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)