

Scaled data based on original data using

LM-79-08 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P234532

Luminaire Tested: **CTA-F-0100-20L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-20L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1978.5 lumens
Efficiency: N/A
Efficacy: 95.1 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: Direct

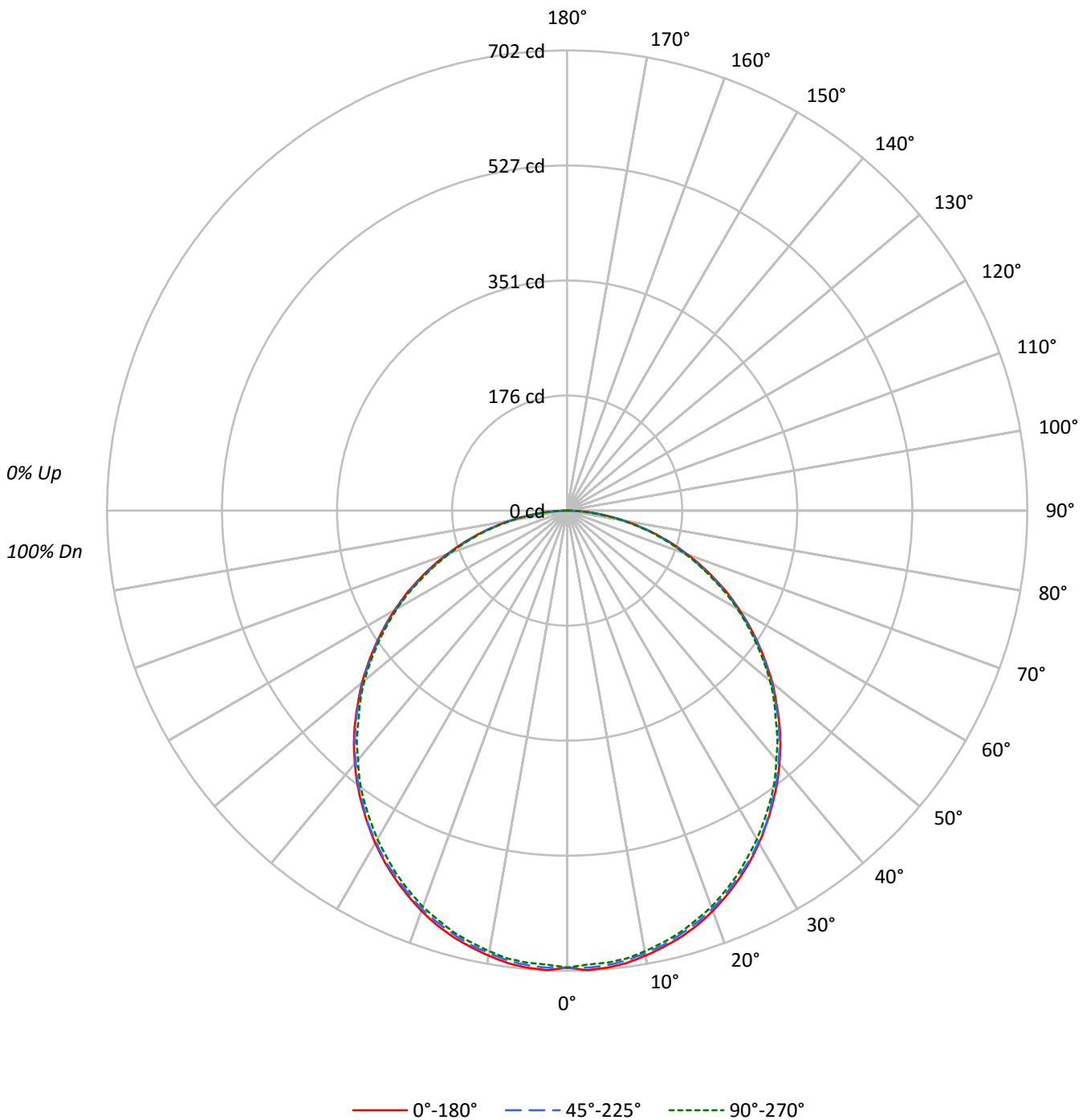
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50
5	76	63	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	45	37	32		43	37	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°	4502	4502	4502
5°	4538	4513	4488
10°	4521	4496	4477
15°	4500	4474	4455
20°	4467	4447	4421
25°	4419	4399	4371
30°	4367	4353	4316
35°	4306	4290	4260
40°	4247	4231	4183
45°	4180	4163	4110
50°	4106	4086	4057
55°	4016	3995	3962
60°	3924	3899	3875
65°	3820	3776	3732
70°	3686	3631	3595
75°	3526	3456	3431
80°	3254	3217	3146
85°	2919	2704	2497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.3
10°-20°	188.5	9.5
20°-30°	283.7	14.3
30°-40°	339.4	17.2
40°-50°	350.3	17.7
50°-60°	316.7	16.0
60°-70°	244.6	12.4
70°-80°	146.9	7.4
80°-90°	42.4	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°	538.2	27.2
0°-40°	877.7	44.4
0°-60°	1544.6	78.1
0°-90°	1978.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1978.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	700	693	696	694	692	66
15°	673	666	669	668	666	190
25°	620	614	617	614	614	286
35°	546	542	544	539	540	342
45°	458	454	456	451	450	353
55°	357	356	355	351	352	319
65°	250	248	247	245	244	248
75°	141	139	138	138	138	149
85°	39	39	36	35	34	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.1	697.1	697.1	697.1	697.1
2.5°	701.9	695.2	698.1	697.1	693.3
5°	700.0	693.3	696.2	694.2	692.3
7.5°	696.2	689.4	692.3	690.4	689.4
10°	689.4	682.7	685.6	683.7	682.7
12.5°	681.7	675.0	678.8	676.9	675.0
15°	673.1	666.3	669.2	668.3	666.3
17.5°	662.5	655.8	658.7	657.7	654.8
20°	650.0	643.3	647.1	644.2	643.3
22.5°	635.6	629.8	632.7	628.8	628.8
25°	620.2	614.4	617.3	613.5	613.5
27.5°	603.8	598.1	601.9	597.1	596.2
30°	585.6	580.8	583.7	578.8	578.8
32.5°	566.3	562.5	565.4	559.6	559.6
35°	546.2	542.3	544.2	539.4	540.4
37.5°	526.0	522.1	524.0	519.2	520.2
40°	503.8	501.0	501.9	497.1	496.2
42.5°	481.7	477.9	479.8	475.0	475.0
45°	457.7	453.8	455.8	451.0	450.0
47.5°	432.7	431.7	430.8	426.9	427.9
50°	408.7	407.7	406.7	402.9	403.8
52.5°	382.7	381.7	380.8	376.9	377.9
55°	356.7	355.8	354.8	351.0	351.9
57.5°	330.8	329.8	328.8	326.0	326.0
60°	303.8	302.9	301.9	300.0	300.0
62.5°	277.9	276.9	275.0	273.1	273.1
65°	250.0	248.1	247.1	245.2	244.2
67.5°	223.1	220.2	219.2	218.3	217.3
70°	195.2	193.3	192.3	191.3	190.4
72.5°	168.3	166.3	165.4	165.4	163.5
75°	141.3	139.4	138.5	138.5	137.5
77.5°	113.5	114.4	112.5	112.5	110.6
80°	87.5	87.5	86.5	85.6	84.6
82.5°	62.5	63.5	61.5	60.6	58.7
85°	39.4	39.4	36.5	34.6	33.7
87.5°	17.3	16.3	14.4	12.5	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)