

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: METALUX

Report Number: P225538

Luminaire Tested: **14AC-LD5-29-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P225538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-29-RDP-UNV-L835-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2035.8 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

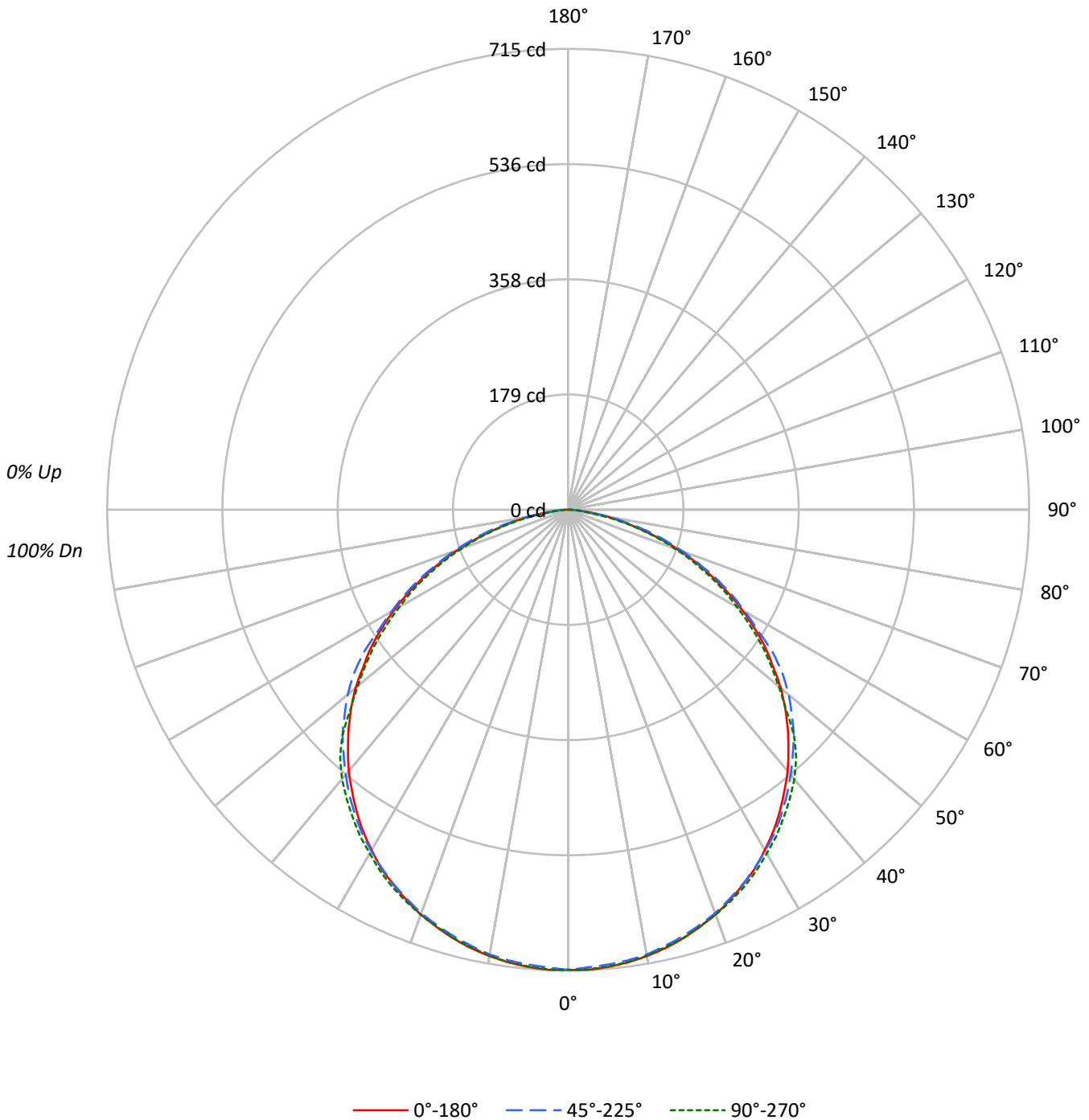
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	51	46		56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32		44	37	32		43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2005	2005	2005
5°	2007	1997	2005
10°	2005	1998	2004
15°	2002	1992	2000
20°	1997	1991	1999
25°	1988	1986	2000
30°	1977	1981	1996
35°	1961	1977	1997
40°	1941	1968	1999
45°	1913	1966	1968
50°	1881	1951	1861
55°	1829	1900	1793
60°	1752	1777	1699
65°	1640	1684	1596
70°	1493	1553	1443
75°	1245	1360	1224
80°	986	1041	847
85°	641	557	493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.3
10°-20°	194.1	9.5
20°-30°	296.3	14.6
30°-40°	361.3	17.7
40°-50°	378.3	18.6
50°-60°	336.6	16.5
60°-70°	248.3	12.2
70°-80°	128.3	6.3
80°-90°	24.9	1.2
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°	558.1	27.4
0°-40°	919.4	45.2
0°-60°	1634.2	80.3
0°-90°	2035.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	712	711	709	711	711	68
15°	689	688	685	688	688	194
25°	642	642	641	646	646	296
35°	572	573	577	583	583	358
45°	482	485	495	500	496	371
55°	374	382	388	372	366	333
65°	247	264	254	245	240	245
75°	115	127	125	116	113	124
85°	20	22	17	16	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.9	713.9	713.9	713.9	713.9
2.5°	714.6	713.9	710.6	713.9	713.9
5°	712.0	711.3	708.6	711.3	711.3
7.5°	708.6	708.0	705.3	708.0	708.0
10°	703.3	702.7	700.7	703.3	702.7
12.5°	696.7	696.7	693.4	696.7	695.4
15°	688.7	688.1	685.4	688.1	688.1
17.5°	678.8	678.1	676.1	679.4	678.1
20°	668.2	667.5	666.2	669.5	668.8
22.5°	655.6	655.6	653.6	657.5	657.5
25°	641.6	641.6	641.0	645.6	645.6
27.5°	627.7	626.4	626.4	631.0	631.7
30°	609.8	609.8	611.1	616.4	615.7
32.5°	591.9	592.5	595.2	599.8	600.5
35°	572.0	572.6	576.6	583.2	582.6
37.5°	550.7	552.7	557.4	564.7	564.7
40°	529.5	530.8	536.8	544.8	545.4
42.5°	505.6	508.9	515.6	524.8	523.5
45°	481.7	485.0	495.0	499.6	495.6
47.5°	456.5	460.5	470.4	471.1	457.8
50°	430.6	435.3	446.5	433.3	426.0
52.5°	400.8	409.4	419.3	400.8	396.1
55°	373.6	381.5	388.2	371.6	366.3
57.5°	343.0	353.7	349.0	341.0	334.4
60°	311.9	323.1	316.5	308.5	302.6
62.5°	280.0	292.6	286.0	278.0	272.7
65°	246.8	264.1	253.5	244.8	240.2
67.5°	215.6	232.2	219.6	213.0	208.3
70°	181.8	195.7	189.1	180.5	175.8
72.5°	148.6	159.2	157.3	148.0	144.6
75°	114.8	126.7	125.4	115.5	112.8
77.5°	86.3	97.5	93.6	85.6	82.3
80°	61.0	68.3	64.4	55.1	52.4
82.5°	37.2	43.1	36.5	31.2	28.5
85°	19.9	21.9	17.3	15.9	15.3
87.5°	7.3	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)