

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: P225539

Luminaire Tested: **14AC-LD5-29-RDP-UNV-L840-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: P225539
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-L840-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2076.8 lumens
Efficiency: N/A
Efficacy: 83.1 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

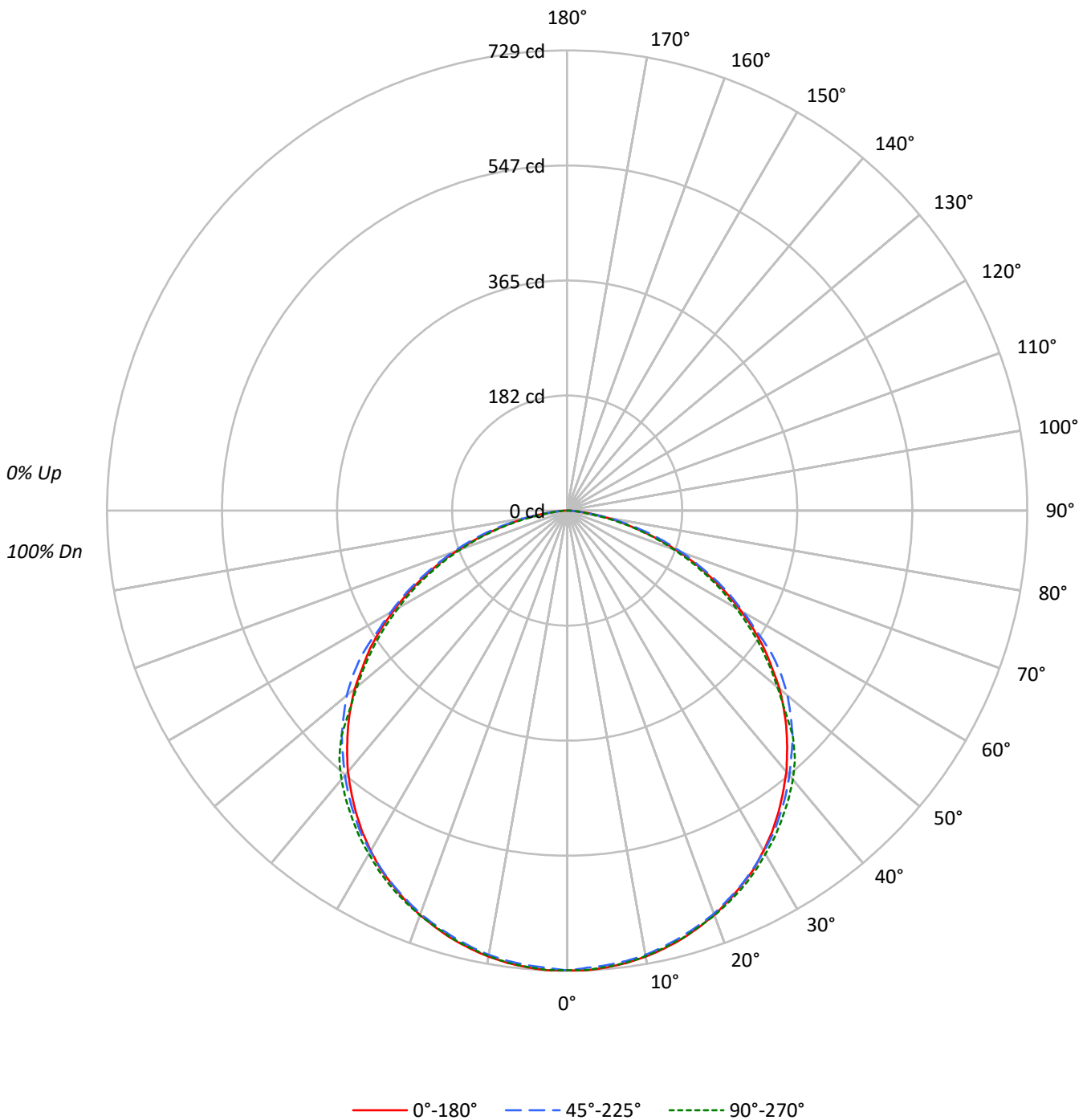
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2045	2045	2045
5°	2047	2038	2045
10°	2046	2038	2044
15°	2042	2033	2040
20°	2037	2031	2039
25°	2028	2026	2041
30°	2017	2021	2037
35°	2000	2016	2037
40°	1980	2007	2040
45°	1951	2005	2008
50°	1919	1990	1899
55°	1866	1939	1829
60°	1786	1813	1734
65°	1673	1718	1628
70°	1523	1584	1473
75°	1270	1388	1249
80°	1007	1062	865
85°	654	567	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.3
10°-20°	198.0	9.5
20°-30°	302.3	14.6
30°-40°	368.6	17.7
40°-50°	385.9	18.6
50°-60°	343.3	16.5
60°-70°	253.3	12.2
70°-80°	130.9	6.3
80°-90°	25.4	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°	569.3	27.4
0°-40°	937.9	45.2
0°-60°	1667.2	80.3
0°-90°	2076.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	726	726	723	726	726	69
15°	703	702	699	702	702	198
25°	655	655	654	659	659	302
35°	584	584	588	595	594	365
45°	491	495	505	510	506	379
55°	381	389	396	379	374	340
65°	252	269	259	250	245	250
75°	117	129	128	118	115	127
85°	20	22	18	16	16	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	729.0	728.3	725.0	728.3	728.3
5°	726.3	725.6	722.9	725.6	725.6
7.5°	722.9	722.2	719.5	722.2	722.2
10°	717.5	716.8	714.8	717.5	716.8
12.5°	710.7	710.7	707.4	710.7	709.4
15°	702.6	701.9	699.2	701.9	701.9
17.5°	692.5	691.8	689.8	693.1	691.8
20°	681.6	681.0	679.6	683.0	682.3
22.5°	668.8	668.8	666.7	670.8	670.8
25°	654.6	654.6	653.9	658.6	658.6
27.5°	640.3	639.0	639.0	643.7	644.4
30°	622.1	622.1	623.4	628.8	628.2
32.5°	603.8	604.5	607.2	611.9	612.6
35°	583.5	584.2	588.2	595.0	594.3
37.5°	561.8	563.9	568.6	576.0	576.0
40°	540.2	541.5	547.6	555.7	556.4
42.5°	515.8	519.2	525.9	535.4	534.1
45°	491.4	494.8	505.0	509.7	505.6
47.5°	465.7	469.8	479.9	480.6	467.1
50°	439.3	444.0	455.6	442.0	434.6
52.5°	408.8	417.6	427.8	408.8	404.1
55°	381.1	389.2	396.0	379.1	373.6
57.5°	350.0	360.8	356.0	347.9	341.2
60°	318.1	329.6	322.9	314.8	308.7
62.5°	285.7	298.5	291.7	283.6	278.2
65°	251.8	269.4	258.6	249.8	245.0
67.5°	220.0	236.9	224.1	217.3	212.5
70°	185.5	199.7	192.9	184.1	179.4
72.5°	151.6	162.5	160.4	150.9	147.6
75°	117.1	129.3	127.9	117.8	115.1
77.5°	88.0	99.5	95.4	87.3	83.9
80°	62.3	69.7	65.7	56.2	53.5
82.5°	37.9	44.0	37.2	31.8	29.1
85°	20.3	22.3	17.6	16.2	15.6
87.5°	7.4	7.4	7.4	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)