

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: P225541

Luminaire Tested: **14AC-LD5-35-RDP-UNV-L830-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: P225541
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-LD5-35-RDP-UNV-L830-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2481.8 lumens
Efficiency: N/A
Efficacy: 78.8 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

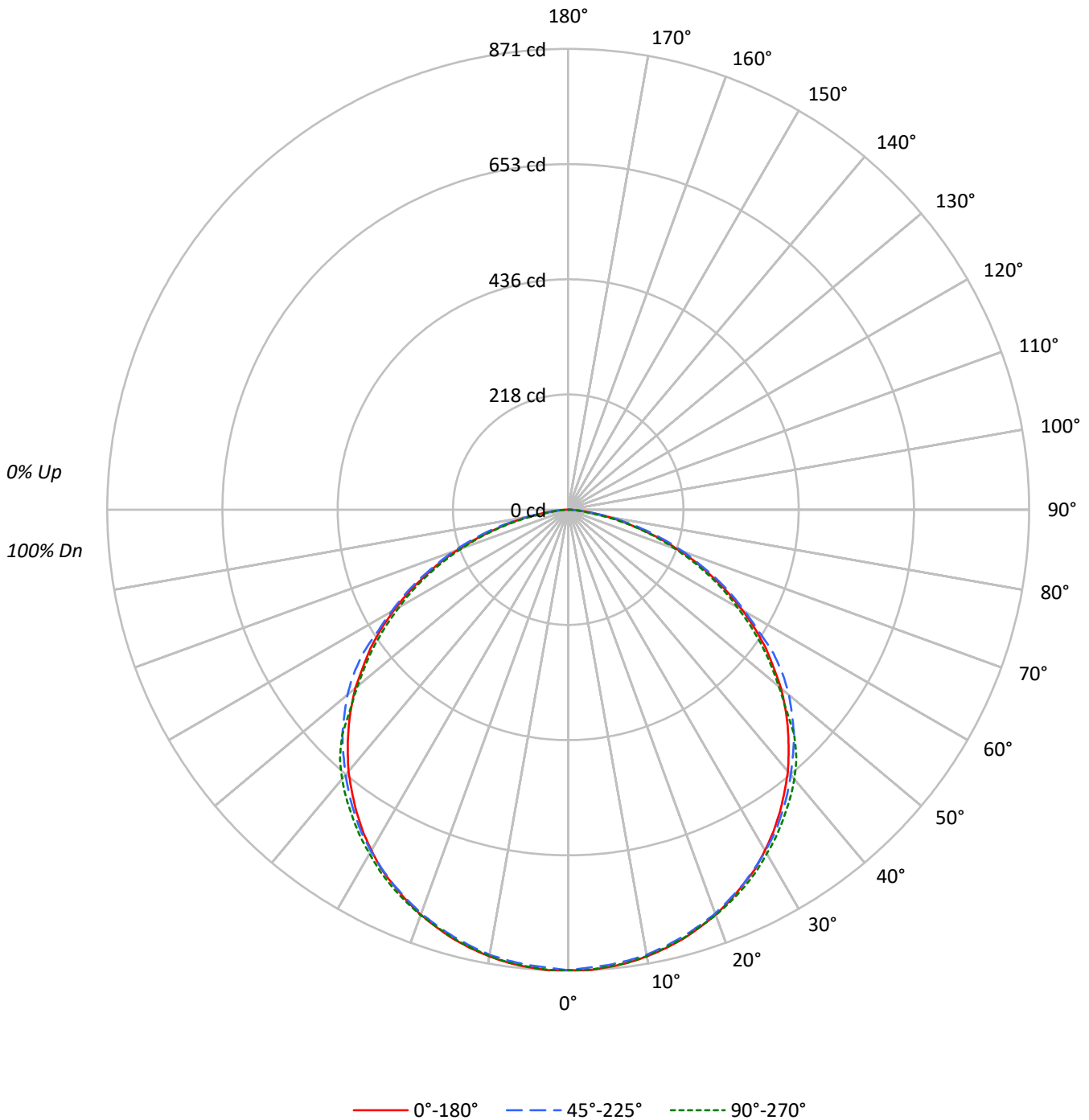
Input Watts (W): 31.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2444	2444	2444
5°	2446	2435	2444
10°	2445	2436	2442
15°	2441	2429	2438
20°	2434	2427	2437
25°	2423	2421	2438
30°	2410	2416	2434
35°	2390	2409	2435
40°	2366	2399	2437
45°	2332	2396	2399
50°	2293	2378	2269
55°	2229	2317	2186
60°	2135	2167	2072
65°	1999	2053	1945
70°	1819	1892	1760
75°	1518	1659	1492
80°	1203	1269	1033
85°	783	677	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.3
10°-20°	236.7	9.5
20°-30°	361.3	14.6
30°-40°	440.5	17.7
40°-50°	461.2	18.6
50°-60°	410.3	16.5
60°-70°	302.7	12.2
70°-80°	156.4	6.3
80°-90°	30.4	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°	680.3	27.4
0°-40°	1120.8	45.2
0°-60°	1992.3	80.3
0°-90°	2481.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2481.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	868	867	864	867	867	83
15°	840	839	836	839	839	237
25°	782	782	781	787	787	361
35°	697	698	703	711	710	436
45°	587	591	603	609	604	453
55°	455	465	473	453	446	406
65°	301	322	309	298	293	298
75°	140	154	153	141	138	151
85°	24	27	21	19	19	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.4	870.4	870.4	870.4	870.4
2.5°	871.2	870.4	866.3	870.4	870.4
5°	867.9	867.1	863.9	867.1	867.1
7.5°	863.9	863.1	859.8	863.1	863.1
10°	857.4	856.6	854.2	857.4	856.6
12.5°	849.3	849.3	845.3	849.3	847.7
15°	839.6	838.8	835.6	838.8	838.8
17.5°	827.5	826.7	824.3	828.3	826.7
20°	814.6	813.7	812.1	816.2	815.4
22.5°	799.2	799.2	796.8	801.6	801.6
25°	782.2	782.2	781.4	787.0	787.0
27.5°	765.2	763.6	763.6	769.3	770.1
30°	743.4	743.4	745.0	751.5	750.6
32.5°	721.5	722.3	725.6	731.2	732.0
35°	697.3	698.1	702.9	711.0	710.2
37.5°	671.4	673.8	679.5	688.4	688.4
40°	645.5	647.1	654.4	664.1	664.9
42.5°	616.4	620.4	628.5	639.8	638.2
45°	587.3	591.3	603.4	609.1	604.2
47.5°	556.5	561.4	573.5	574.3	558.1
50°	525.0	530.6	544.4	528.2	519.3
52.5°	488.6	499.1	511.2	488.6	482.9
55°	455.4	465.1	473.2	453.0	446.5
57.5°	418.2	431.1	425.5	415.8	407.7
60°	380.2	393.9	385.8	376.1	368.9
62.5°	341.4	356.7	348.6	338.9	332.5
65°	300.9	321.9	309.0	298.5	292.8
67.5°	262.9	283.1	267.7	259.7	254.0
70°	221.6	238.6	230.5	220.0	214.4
72.5°	181.2	194.1	191.7	180.4	176.3
75°	139.9	154.5	152.9	140.7	137.5
77.5°	105.2	118.9	114.1	104.3	100.3
80°	74.4	83.3	78.5	67.1	63.9
82.5°	45.3	52.6	44.5	38.0	34.8
85°	24.3	26.7	21.0	19.4	18.6
87.5°	8.9	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)