

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: P219277

Luminaire Tested: **14AC-LD5-35-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: P219277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-35-UNV-L835-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

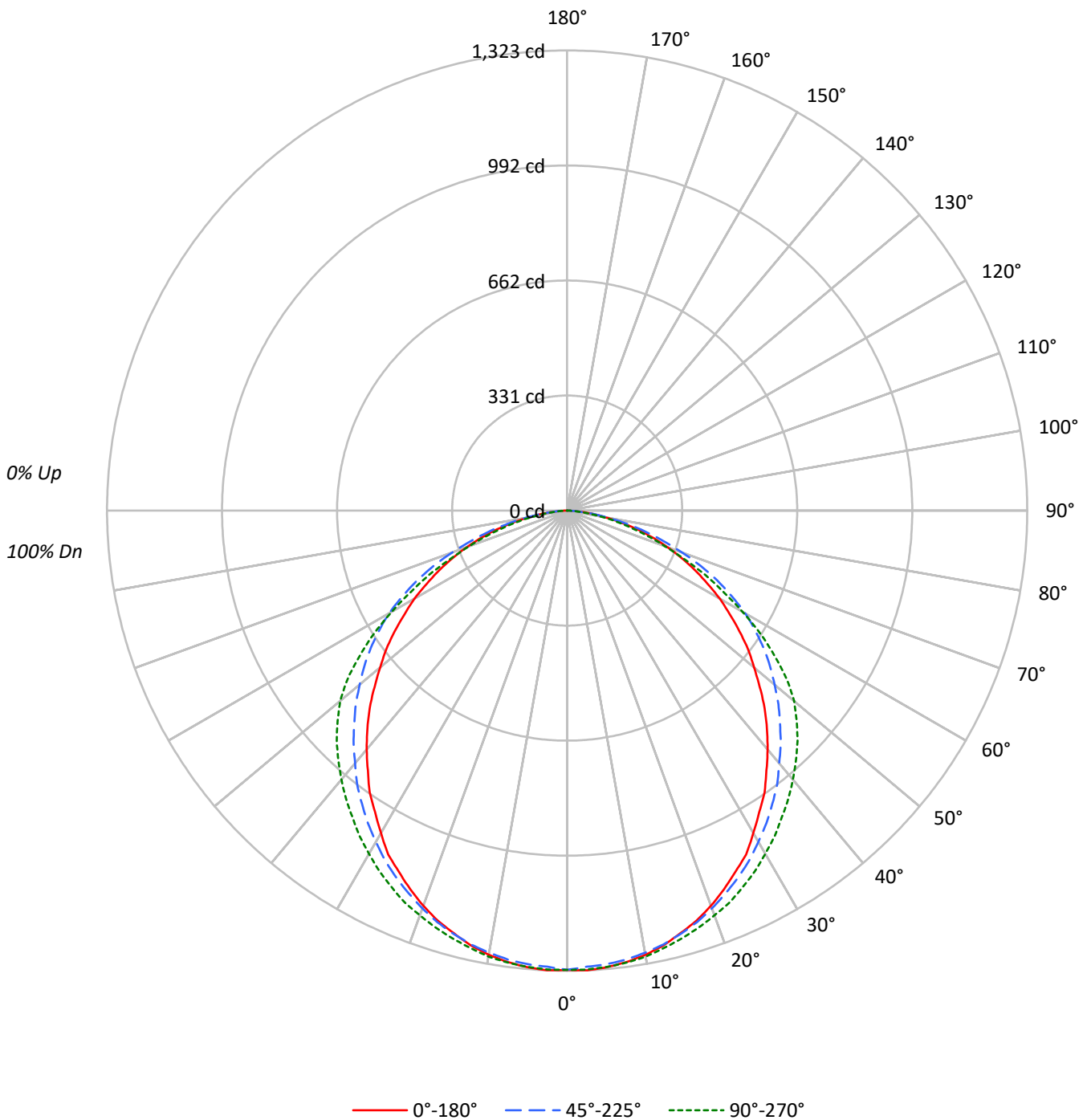
Lumens per Lamp: N/A
Luminaire Lumens: 3661.8 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 31.48
Input Voltage (V): NR
Input Current (A_{in}): 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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3553	3553	3553
5°	3552	3509	3527
10°	3528	3473	3496
15°	3482	3429	3454
20°	3432	3377	3421
25°	3361	3318	3388
30°	3280	3251	3347
35°	3195	3183	3304
40°	3085	3101	3272
45°	2981	3025	3241
50°	2851	2948	3187
55°	2741	2871	2991
60°	2615	2763	2671
65°	2450	2550	2295
70°	2257	2218	1849
75°	1990	1808	1439
80°	1534	1256	961
85°	968	538	366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.4
10°-20°	356.9	9.7
20°-30°	538.5	14.7
30°-40°	645.6	17.6
40°-50°	670.0	18.3
50°-60°	604.9	16.5
60°-70°	440.5	12.0
70°-80°	231.1	6.3
80°-90°	49.4	1.3
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°	1020.3	27.9
0°-40°	1665.9	45.5
0°-60°	2940.8	80.3
0°-90°	3661.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1315	1309	1318	1317	125
15°	1258	1258	1260	1274	1273	355
25°	1145	1152	1164	1189	1194	528
35°	990	999	1029	1067	1076	617
45°	803	820	865	919	937	618
55°	605	626	689	730	728	541
65°	405	430	476	454	438	401
75°	209	239	231	200	190	220
85°	40	48	35	27	25	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.5	1320.5	1320.5	1320.5	1320.5
2.5°	1323.1	1319.6	1312.6	1321.3	1320.5
5°	1317.8	1315.2	1309.1	1317.8	1317.0
7.5°	1309.1	1307.3	1302.1	1311.7	1310.8
10°	1296.8	1294.2	1290.7	1301.2	1302.1
12.5°	1280.2	1279.3	1277.6	1288.9	1288.1
15°	1258.3	1258.3	1260.0	1274.1	1273.2
17.5°	1236.4	1236.4	1240.8	1256.5	1257.4
20°	1209.3	1211.0	1217.1	1236.4	1238.2
22.5°	1178.6	1180.4	1190.9	1215.4	1219.8
25°	1145.3	1151.5	1163.7	1189.1	1194.4
27.5°	1114.7	1115.6	1134.0	1162.0	1169.0
30°	1070.9	1083.2	1099.8	1132.2	1139.2
32.5°	1028.0	1040.3	1065.7	1100.7	1110.3
35°	989.5	999.1	1028.9	1067.4	1076.2
37.5°	941.3	957.1	992.1	1032.4	1044.6
40°	896.7	910.7	948.3	993.9	1009.6
42.5°	850.2	866.0	908.9	957.9	973.7
45°	803.0	820.5	865.1	919.4	936.9
47.5°	751.3	773.2	824.0	879.1	894.9
50°	701.4	724.2	778.4	836.2	852.0
52.5°	655.9	676.0	735.5	789.0	796.0
55°	605.1	626.1	689.1	730.3	728.5
57.5°	554.3	577.9	641.0	666.4	659.4
60°	507.0	528.9	591.9	597.2	582.3
62.5°	454.5	479.9	533.3	525.4	507.0
65°	405.4	429.9	476.3	454.5	437.8
67.5°	355.5	381.8	415.1	382.7	363.4
70°	306.5	338.0	350.3	315.2	299.5
72.5°	256.6	289.8	289.0	255.7	242.6
75°	209.3	239.0	231.2	199.6	190.0
77.5°	159.4	189.1	174.3	150.6	141.9
80°	113.0	141.0	121.7	103.3	97.2
82.5°	77.1	93.7	76.2	60.4	57.8
85°	40.3	48.2	35.0	27.1	25.4
87.5°	14.9	14.0	12.3	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)