

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: P219276

Luminaire Tested: **14AC-LD5-35-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: P219276
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-L830-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

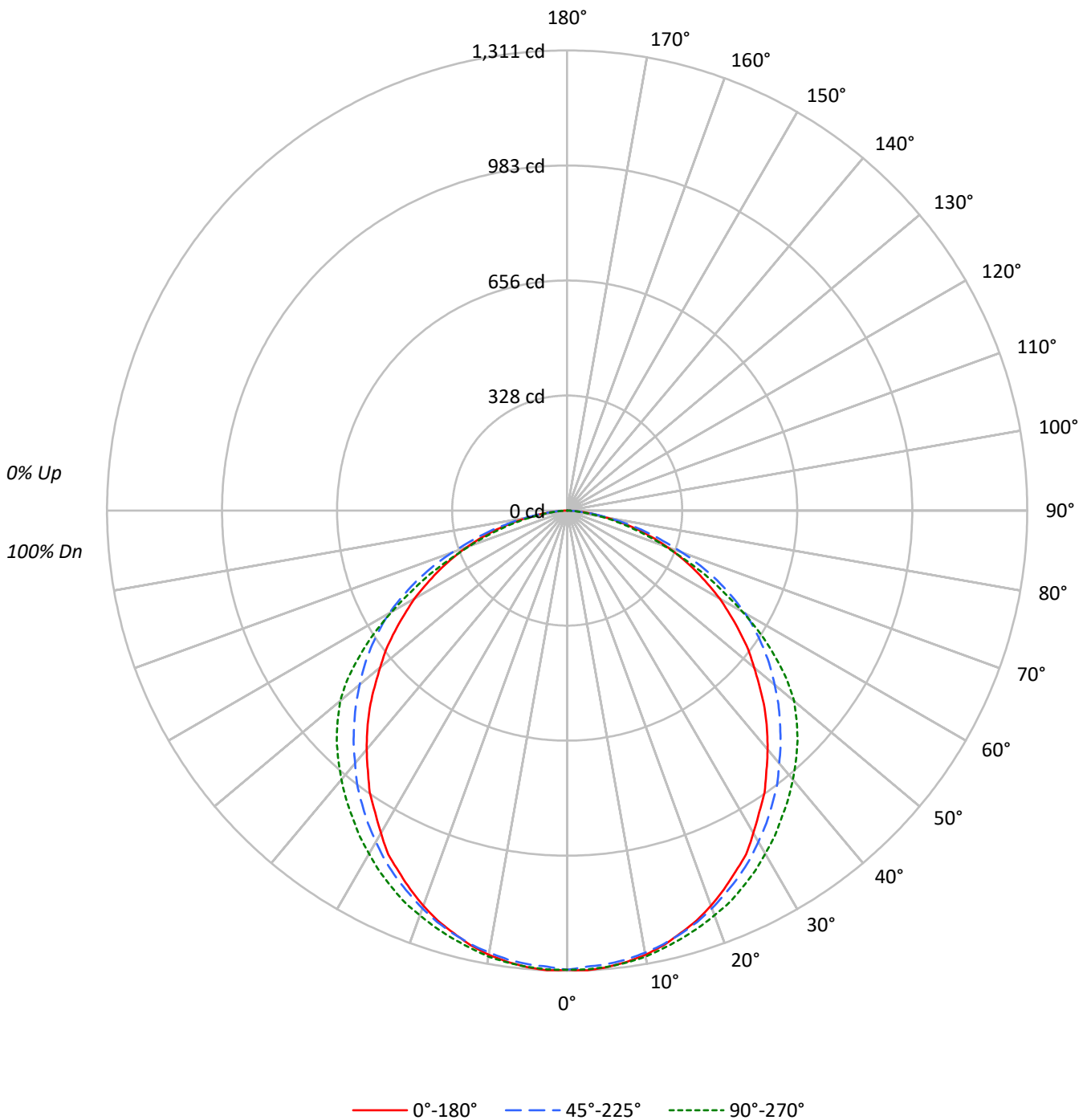
Lumens per Lamp: N/A
Luminaire Lumens: 3628.4 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

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°	3521	3521	3521
5°	3520	3477	3495
10°	3496	3441	3464
15°	3450	3398	3423
20°	3400	3346	3390
25°	3331	3288	3357
30°	3250	3222	3316
35°	3165	3154	3274
40°	3057	3073	3242
45°	2954	2997	3212
50°	2825	2921	3158
55°	2716	2844	2964
60°	2592	2737	2647
65°	2428	2527	2274
70°	2236	2197	1831
75°	1972	1791	1426
80°	1519	1245	952
85°	958	533	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.4
10°-20°	353.6	9.7
20°-30°	533.5	14.7
30°-40°	639.7	17.6
40°-50°	663.9	18.3
50°-60°	599.3	16.5
60°-70°	436.5	12.0
70°-80°	229.0	6.3
80°-90°	49.0	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°	1011.0	27.9
0°-40°	1650.7	45.5
0°-60°	2914.0	80.3
0°-90°	3628.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1306	1303	1297	1306	1305	124
15°	1247	1247	1249	1262	1262	352
25°	1135	1141	1153	1178	1184	523
35°	980	990	1020	1058	1066	611
45°	796	813	857	911	928	613
55°	600	620	683	724	722	536
65°	402	426	472	450	434	398
75°	207	237	229	198	188	218
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°	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1311.0	1307.6	1300.6	1309.3	1308.4
5°	1305.8	1303.2	1297.1	1305.8	1305.0
7.5°	1297.1	1295.4	1290.2	1299.7	1298.9
10°	1285.0	1282.4	1278.9	1289.3	1290.2
12.5°	1268.5	1267.6	1265.9	1277.2	1276.3
15°	1246.8	1246.8	1248.6	1262.4	1261.6
17.5°	1225.1	1225.1	1229.5	1245.1	1246.0
20°	1198.2	1200.0	1206.0	1225.1	1226.9
22.5°	1167.9	1169.6	1180.0	1204.3	1208.6
25°	1134.9	1141.0	1153.1	1178.3	1183.5
27.5°	1104.5	1105.4	1123.6	1151.4	1158.3
30°	1061.1	1073.3	1089.8	1121.9	1128.8
32.5°	1018.6	1030.8	1055.9	1090.6	1100.2
35°	980.4	990.0	1019.5	1057.7	1066.3
37.5°	932.7	948.3	983.1	1023.0	1035.1
40°	888.5	902.4	939.7	984.8	1000.4
42.5°	842.5	858.1	900.6	949.2	964.8
45°	795.6	813.0	857.2	911.0	928.4
47.5°	744.4	766.1	816.5	871.1	886.7
50°	695.0	717.6	771.3	828.6	844.2
52.5°	649.9	669.8	728.8	781.8	788.7
55°	599.5	620.4	682.8	723.6	721.9
57.5°	549.2	572.7	635.1	660.3	653.3
60°	502.4	524.1	586.5	591.7	577.0
62.5°	450.3	475.5	528.4	520.6	502.4
65°	401.7	426.0	472.0	450.3	433.8
67.5°	352.3	378.3	411.3	379.2	360.1
70°	303.7	334.9	347.1	312.4	296.7
72.5°	254.2	287.2	286.3	253.4	240.3
75°	207.4	236.9	229.1	197.8	188.3
77.5°	157.9	187.4	172.7	149.2	140.6
80°	111.9	139.7	120.6	102.4	96.3
82.5°	76.4	92.8	75.5	59.9	57.3
85°	39.9	47.7	34.7	26.9	25.2
87.5°	14.8	13.9	12.1	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)