

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: P219281

Luminaire Tested: **14AC-LD5-39-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: P219281
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-LD5-39-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: 4038.2 lumens
Efficiency: N/A
Efficacy: 113.2 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

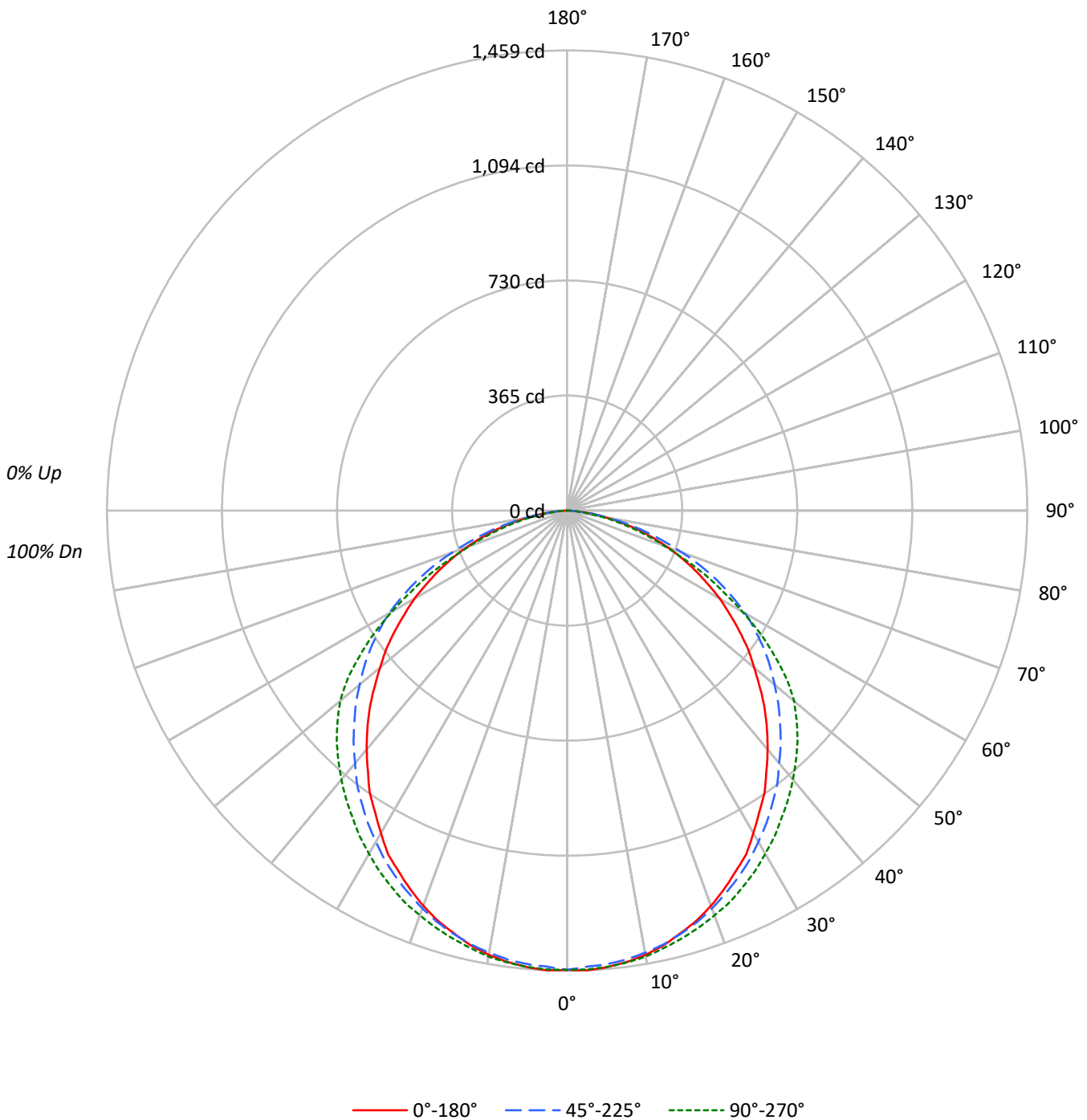
Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3919	3919	3919
5°	3917	3870	3889
10°	3891	3830	3856
15°	3840	3782	3809
20°	3785	3724	3773
25°	3707	3660	3736
30°	3617	3586	3691
35°	3523	3510	3644
40°	3402	3420	3608
45°	3288	3336	3575
50°	3145	3252	3515
55°	3023	3166	3298
60°	2884	3047	2946
65°	2702	2812	2531
70°	2488	2445	2038
75°	2195	1993	1586
80°	1691	1385	1060
85°	1066	593	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.4
10°-20°	393.6	9.7
20°-30°	593.8	14.7
30°-40°	712.0	17.6
40°-50°	738.9	18.3
50°-60°	667.0	16.5
60°-70°	485.8	12.0
70°-80°	254.8	6.3
80°-90°	54.5	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°	1125.2	27.9
0°-40°	1837.2	45.5
0°-60°	3243.1	80.3
0°-90°	4038.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4038.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1453	1450	1444	1453	1452	138
15°	1388	1388	1390	1405	1404	392
25°	1263	1270	1283	1311	1317	582
35°	1091	1102	1135	1177	1187	680
45°	886	905	954	1014	1033	682
55°	667	690	760	805	803	597
65°	447	474	525	501	483	443
75°	231	264	255	220	210	243
85°	44	53	39	30	28	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.2	1456.2	1456.2	1456.2	1456.2
2.5°	1459.1	1455.2	1447.5	1457.2	1456.2
5°	1453.3	1450.4	1443.6	1453.3	1452.3
7.5°	1443.6	1441.7	1435.9	1446.5	1445.6
10°	1430.1	1427.2	1423.4	1434.9	1435.9
12.5°	1411.8	1410.8	1408.9	1421.4	1420.5
15°	1387.6	1387.6	1389.6	1405.0	1404.0
17.5°	1363.5	1363.5	1368.3	1385.7	1386.7
20°	1333.6	1335.5	1342.2	1363.5	1365.4
22.5°	1299.8	1301.7	1313.3	1340.3	1345.1
25°	1263.1	1269.8	1283.3	1311.3	1317.1
27.5°	1229.3	1230.2	1250.5	1281.4	1289.1
30°	1181.0	1194.5	1212.8	1248.6	1256.3
32.5°	1133.7	1147.2	1175.2	1213.8	1224.4
35°	1091.2	1101.8	1134.6	1177.1	1186.8
37.5°	1038.1	1055.4	1094.1	1138.5	1152.0
40°	988.8	1004.3	1045.8	1096.0	1113.4
42.5°	937.6	955.0	1002.3	1056.4	1073.8
45°	885.5	904.8	954.1	1013.9	1033.2
47.5°	828.5	852.7	908.7	969.5	986.9
50°	773.5	798.6	858.5	922.2	939.6
52.5°	723.3	745.5	811.1	870.0	877.8
55°	667.3	690.4	760.0	805.3	803.4
57.5°	611.3	637.3	706.8	734.9	727.1
60°	559.1	583.2	652.8	658.6	642.2
62.5°	501.2	529.2	588.1	579.4	559.1
65°	447.1	474.1	525.3	501.2	482.8
67.5°	392.1	421.0	457.7	422.0	400.7
70°	338.0	372.7	386.3	347.6	330.2
72.5°	282.9	319.6	318.7	282.0	267.5
75°	230.8	263.6	254.9	220.2	209.5
77.5°	175.7	208.6	192.2	166.1	156.4
80°	124.6	155.5	134.2	113.9	107.2
82.5°	85.0	103.3	84.0	66.6	63.7
85°	44.4	53.1	38.6	29.9	28.0
87.5°	16.4	15.5	13.5	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)