

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: P219280

Luminaire Tested: **14AC-LD5-39-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: P219280
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-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: 4001.4 lumens
Efficiency: N/A
Efficacy: 112.2 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

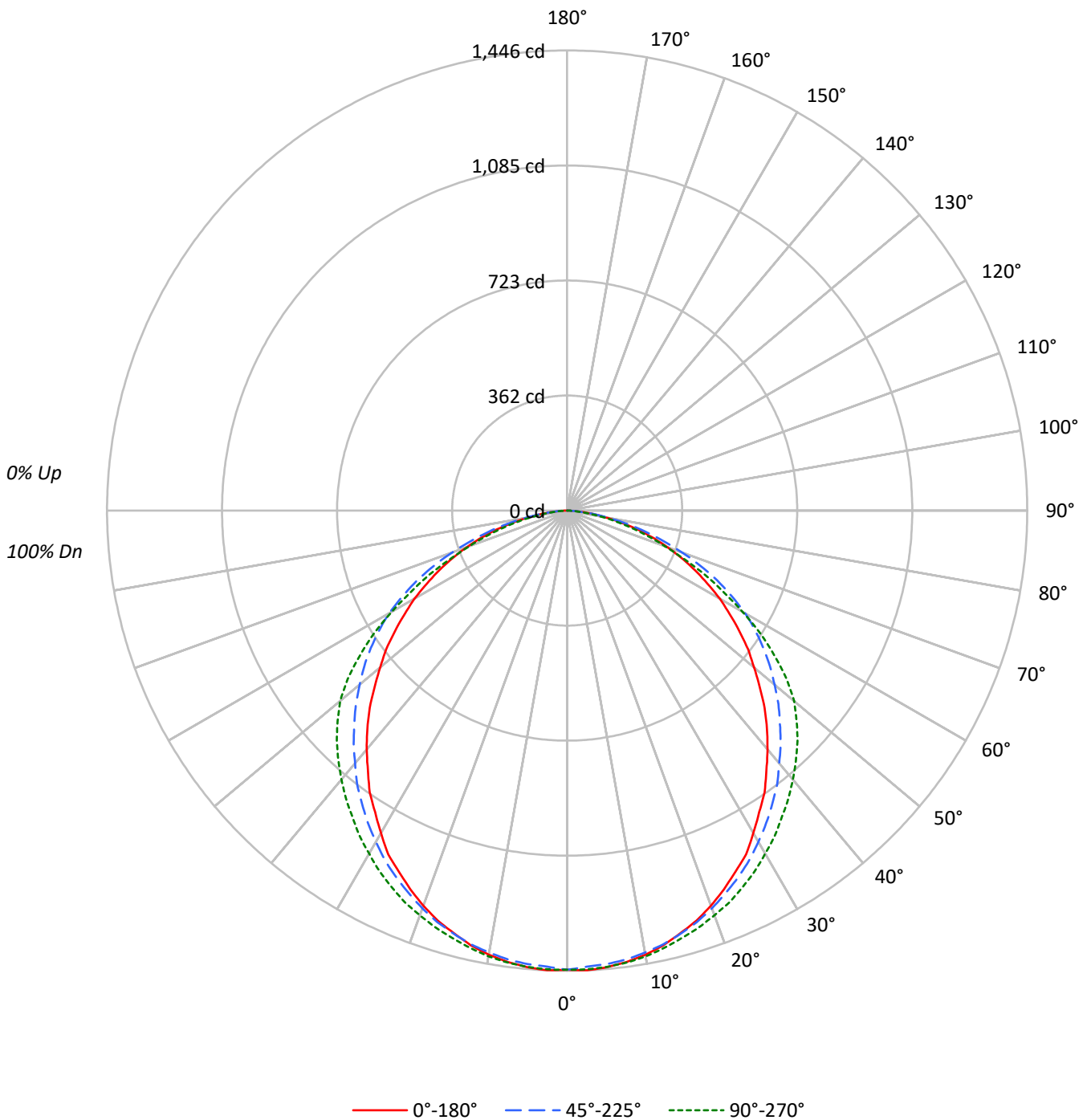
Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3883	3883	3883
5°	3881	3834	3854
10°	3855	3795	3820
15°	3805	3747	3775
20°	3750	3690	3738
25°	3673	3626	3702
30°	3584	3553	3657
35°	3491	3478	3610
40°	3371	3389	3575
45°	3258	3306	3542
50°	3116	3222	3483
55°	2995	3137	3268
60°	2858	3019	2919
65°	2677	2786	2508
70°	2466	2423	2020
75°	2175	1975	1572
80°	1675	1373	1050
85°	1057	588	399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	3.4
10°-20°	390.0	9.7
20°-30°	588.4	14.7
30°-40°	705.5	17.6
40°-50°	732.1	18.3
50°-60°	660.9	16.5
60°-70°	481.4	12.0
70°-80°	252.5	6.3
80°-90°	54.0	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°	1114.9	27.9
0°-40°	1820.4	45.5
0°-60°	3213.5	80.3
0°-90°	4001.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1440	1437	1430	1440	1439	137
15°	1375	1375	1377	1392	1391	388
25°	1252	1258	1272	1299	1305	577
35°	1081	1092	1124	1166	1176	674
45°	877	897	945	1005	1024	675
55°	661	684	753	798	796	591
65°	443	470	520	497	478	438
75°	229	261	253	218	208	240
85°	44	53	38	30	28	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.9	1442.9	1442.9	1442.9	1442.9
2.5°	1445.8	1442.0	1434.3	1443.9	1442.9
5°	1440.0	1437.2	1430.5	1440.0	1439.1
7.5°	1430.5	1428.6	1422.8	1433.3	1432.4
10°	1417.1	1414.2	1410.4	1421.9	1422.8
12.5°	1398.9	1397.9	1396.0	1408.5	1407.5
15°	1375.0	1375.0	1376.9	1392.2	1391.2
17.5°	1351.1	1351.1	1355.8	1373.1	1374.0
20°	1321.4	1323.3	1330.0	1351.1	1353.0
22.5°	1287.9	1289.8	1301.3	1328.1	1332.9
25°	1251.5	1258.2	1271.6	1299.4	1305.1
27.5°	1218.1	1219.0	1239.1	1269.7	1277.4
30°	1170.2	1183.6	1201.8	1237.2	1244.8
32.5°	1123.3	1136.7	1164.5	1202.7	1213.3
35°	1081.2	1091.8	1124.3	1166.4	1176.0
37.5°	1028.6	1045.8	1084.1	1128.1	1141.5
40°	979.8	995.1	1036.3	1086.0	1103.2
42.5°	929.1	946.3	993.2	1046.8	1064.0
45°	877.4	896.6	945.4	1004.7	1023.8
47.5°	821.0	844.9	900.4	960.7	977.9
50°	766.4	791.3	850.6	913.8	931.0
52.5°	716.7	738.7	803.7	862.1	869.8
55°	661.2	684.1	753.0	798.0	796.1
57.5°	605.7	631.5	700.4	728.2	720.5
60°	554.0	577.9	646.8	652.6	636.3
62.5°	496.6	524.3	582.7	574.1	554.0
65°	443.0	469.8	520.5	496.6	478.4
67.5°	388.5	417.2	453.5	418.1	397.1
70°	334.9	369.3	382.7	344.5	327.2
72.5°	280.4	316.7	315.8	279.4	265.0
75°	228.7	261.2	252.6	218.2	207.6
77.5°	174.1	206.7	190.4	164.6	155.0
80°	123.4	154.1	133.0	112.9	106.2
82.5°	84.2	102.4	83.2	66.0	63.2
85°	44.0	52.6	38.3	29.7	27.7
87.5°	16.3	15.3	13.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)