

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: P219284

Luminaire Tested: **14AC-LD5-44-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: P219284
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-LD5-44-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: 4444.0 lumens
Efficiency: N/A
Efficacy: 108.1 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

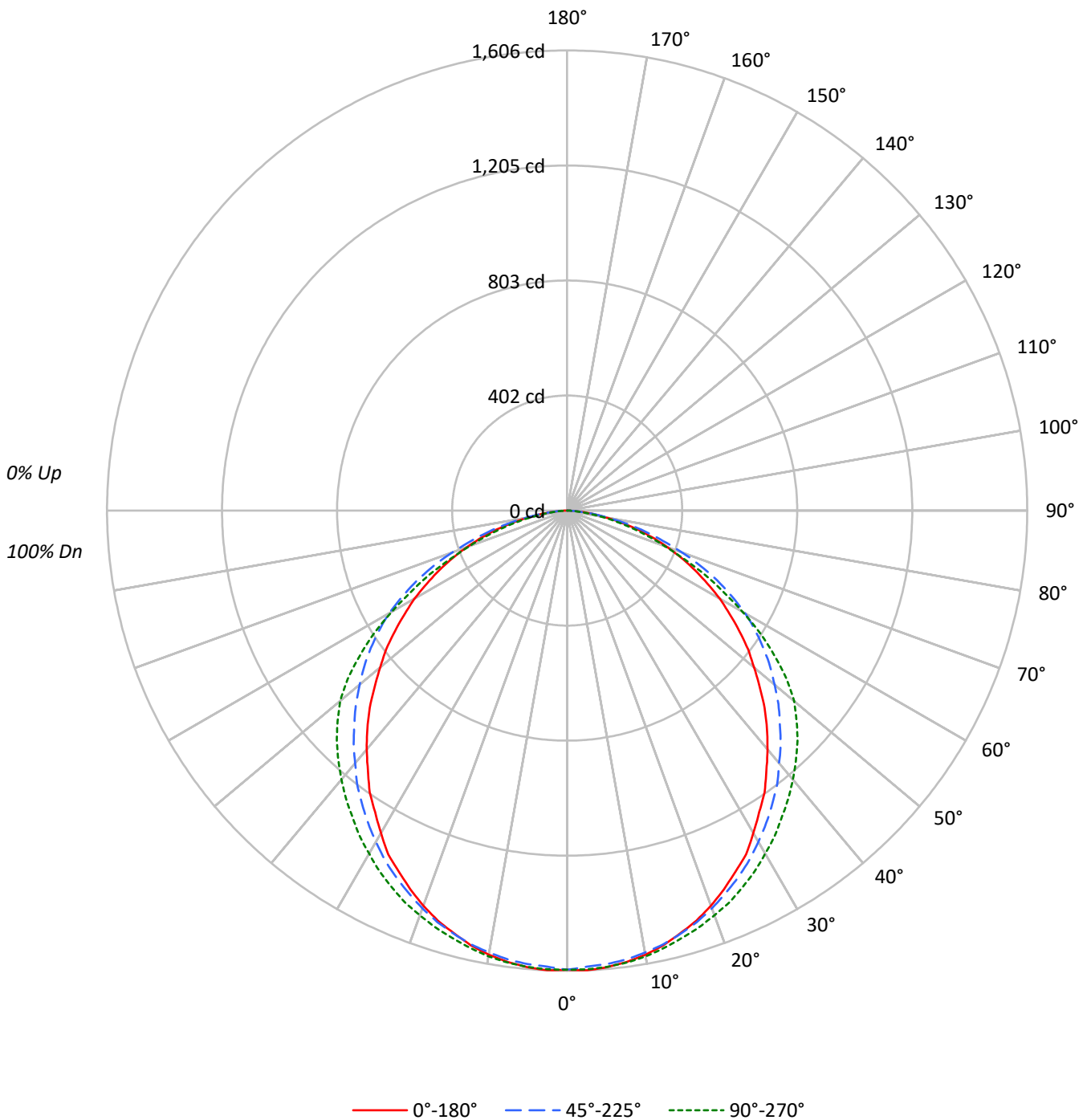
Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4312	4312	4312
5°	4311	4259	4280
10°	4282	4214	4243
15°	4226	4162	4192
20°	4165	4098	4152
25°	4080	4027	4112
30°	3981	3946	4062
35°	3877	3863	4010
40°	3744	3764	3971
45°	3618	3671	3934
50°	3460	3578	3868
55°	3326	3484	3630
60°	3174	3353	3242
65°	2973	3094	2786
70°	2738	2691	2243
75°	2416	2194	1746
80°	1861	1525	1167
85°	1174	653	444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.4
10°-20°	433.1	9.7
20°-30°	653.5	14.7
30°-40°	783.6	17.6
40°-50°	813.1	18.3
50°-60°	734.1	16.5
60°-70°	534.6	12.0
70°-80°	280.4	6.3
80°-90°	60.0	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°	1238.2	27.9
0°-40°	2021.8	45.5
0°-60°	3569.0	80.3
0°-90°	4444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1599	1596	1589	1599	1598	152
15°	1527	1527	1529	1546	1545	431
25°	1390	1397	1412	1443	1450	641
35°	1201	1212	1249	1295	1306	749
45°	974	996	1050	1116	1137	750
55°	734	760	836	886	884	657
65°	492	522	578	552	531	487
75°	254	290	281	242	231	267
85°	49	58	42	33	31	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602.5	1602.5	1602.5	1602.5	1602.5
2.5°	1605.7	1601.5	1593.0	1603.6	1602.5
5°	1599.4	1596.2	1588.7	1599.4	1598.3
7.5°	1588.7	1586.6	1580.2	1591.9	1590.9
10°	1573.9	1570.7	1566.4	1579.2	1580.2
12.5°	1553.7	1552.6	1550.5	1564.3	1563.2
15°	1527.1	1527.1	1529.2	1546.2	1545.2
17.5°	1500.5	1500.5	1505.8	1525.0	1526.0
20°	1467.6	1469.7	1477.1	1500.5	1502.7
22.5°	1430.4	1432.5	1445.3	1475.0	1480.3
25°	1390.0	1397.4	1412.3	1443.1	1449.5
27.5°	1352.8	1353.9	1376.2	1410.2	1418.7
30°	1299.7	1314.6	1334.7	1374.1	1382.6
32.5°	1247.6	1262.5	1293.3	1335.8	1347.5
35°	1200.8	1212.5	1248.7	1295.4	1306.1
37.5°	1142.4	1161.5	1204.0	1252.9	1267.8
40°	1088.2	1105.2	1150.9	1206.2	1225.3
42.5°	1031.9	1051.0	1103.1	1162.6	1181.7
45°	974.5	995.7	1049.9	1115.8	1137.1
47.5°	911.8	938.4	1000.0	1066.9	1086.1
50°	851.2	878.8	944.7	1014.9	1034.0
52.5°	796.0	820.4	892.7	957.5	966.0
55°	734.3	759.8	836.3	886.3	884.2
57.5°	672.7	701.4	777.9	808.7	800.2
60°	615.3	641.9	718.4	724.8	706.7
62.5°	551.5	582.4	647.2	637.6	615.3
65°	492.0	521.8	578.1	551.5	531.3
67.5°	431.5	463.3	503.7	464.4	441.0
70°	371.9	410.2	425.1	382.6	363.4
72.5°	311.4	351.8	350.7	310.3	294.4
75°	254.0	290.1	280.6	242.3	230.6
77.5°	193.4	229.5	211.5	182.8	172.2
80°	137.1	171.1	147.7	125.4	118.0
82.5°	93.5	113.7	92.5	73.3	70.1
85°	48.9	58.4	42.5	32.9	30.8
87.5°	18.1	17.0	14.9	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)