

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: P225677

Luminaire Tested: **24AC-LD5-36-RDP-UNV-L840-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: P225677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-36-RDP-UNV-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3203.4 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.34 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

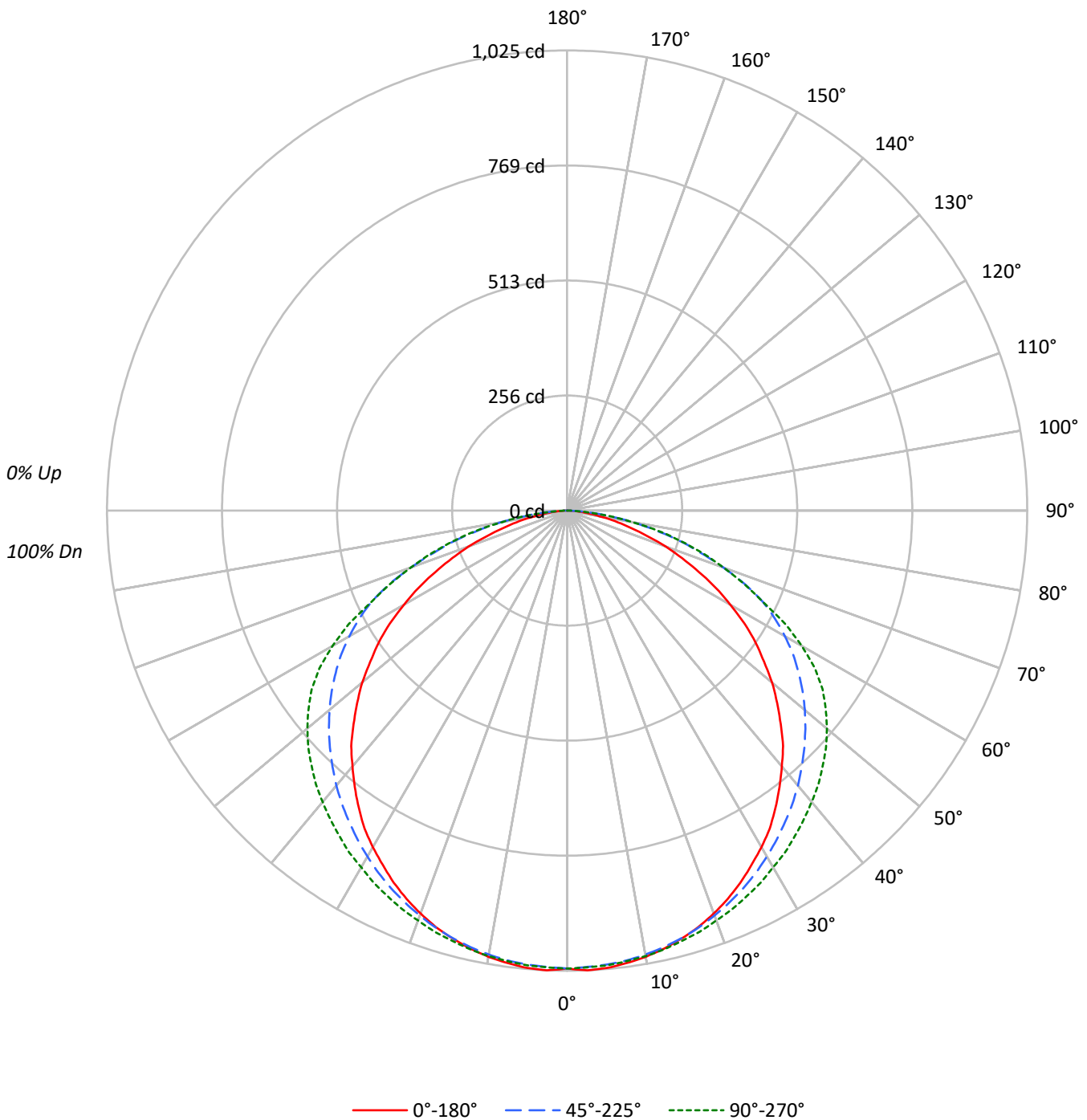
Input Watts (W): 30.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1373	1373	1373
5°	1381	1371	1373
10°	1379	1372	1376
15°	1374	1373	1381
20°	1367	1375	1391
25°	1357	1378	1406
30°	1345	1382	1425
35°	1329	1390	1453
40°	1306	1405	1488
45°	1280	1422	1531
50°	1248	1447	1581
55°	1202	1476	1629
60°	1130	1507	1624
65°	1031	1531	1528
70°	916	1455	1455
75°	747	1341	1358
80°	576	1158	1138
85°	400	761	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.0
10°-20°	278.7	8.7
20°-30°	428.4	13.4
30°-40°	530.0	16.5
40°-50°	573.8	17.9
50°-60°	550.4	17.2
60°-70°	436.9	13.6
70°-80°	250.9	7.8
80°-90°	57.6	1.8
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°	803.8	25.1
0°-40°	1333.8	41.6
0°-60°	2458.0	76.7
0°-90°	3203.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1023	1018	1015	1013	1017	97
15°	987	984	986	988	992	278
25°	914	917	928	940	947	421
35°	809	820	846	872	885	506
45°	673	699	747	789	805	519
55°	512	558	629	677	694	456
65°	324	401	481	488	480	322
75°	144	231	258	260	261	156
85°	26	45	49	47	46	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.1	1020.1	1020.1	1020.1	1020.1
2.5°	1025.1	1020.1	1017.6	1015.9	1018.4
5°	1022.6	1017.6	1015.1	1013.4	1016.7
7.5°	1016.7	1012.6	1010.9	1010.1	1012.6
10°	1009.2	1005.0	1004.2	1003.4	1007.5
12.5°	999.2	995.9	995.9	995.9	1000.9
15°	986.7	984.2	985.8	987.5	991.7
17.5°	972.5	970.0	974.2	977.5	983.3
20°	955.0	955.0	960.0	965.0	971.7
22.5°	935.8	937.4	944.9	953.3	960.8
25°	914.1	916.6	928.2	939.9	947.4
27.5°	889.8	894.9	909.9	924.9	934.1
30°	865.6	870.6	889.8	908.2	917.4
32.5°	839.8	845.6	869.0	890.7	903.2
35°	808.9	819.7	846.4	872.3	884.8
37.5°	777.2	792.2	823.9	853.1	866.5
40°	743.8	762.1	799.7	833.1	847.3
42.5°	712.0	731.2	773.8	811.4	828.1
45°	672.8	698.7	747.1	788.8	804.7
47.5°	634.4	665.3	719.6	763.8	782.2
50°	596.0	630.2	691.2	739.6	755.5
52.5°	552.6	594.3	661.1	709.5	726.2
55°	512.5	557.6	629.4	677.0	694.5
57.5°	468.3	519.2	596.8	643.6	654.4
60°	419.9	480.0	560.1	600.2	603.5
62.5°	374.0	441.6	522.6	547.6	548.4
65°	323.9	400.7	480.8	487.5	480.0
67.5°	277.1	357.3	429.1	424.1	426.6
70°	232.9	316.4	369.8	372.3	369.8
72.5°	184.5	273.8	311.4	317.2	318.0
75°	143.6	231.2	257.9	260.4	261.3
77.5°	109.4	185.3	201.2	205.3	207.9
80°	74.3	129.4	149.4	151.1	146.9
82.5°	48.4	83.5	95.2	95.2	94.3
85°	25.9	45.1	49.3	46.7	45.9
87.5°	9.2	13.4	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)