

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: P225684

Luminaire Tested: **24AC-LD5-73-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: P225684
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-LD5-73-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: 6349.3 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

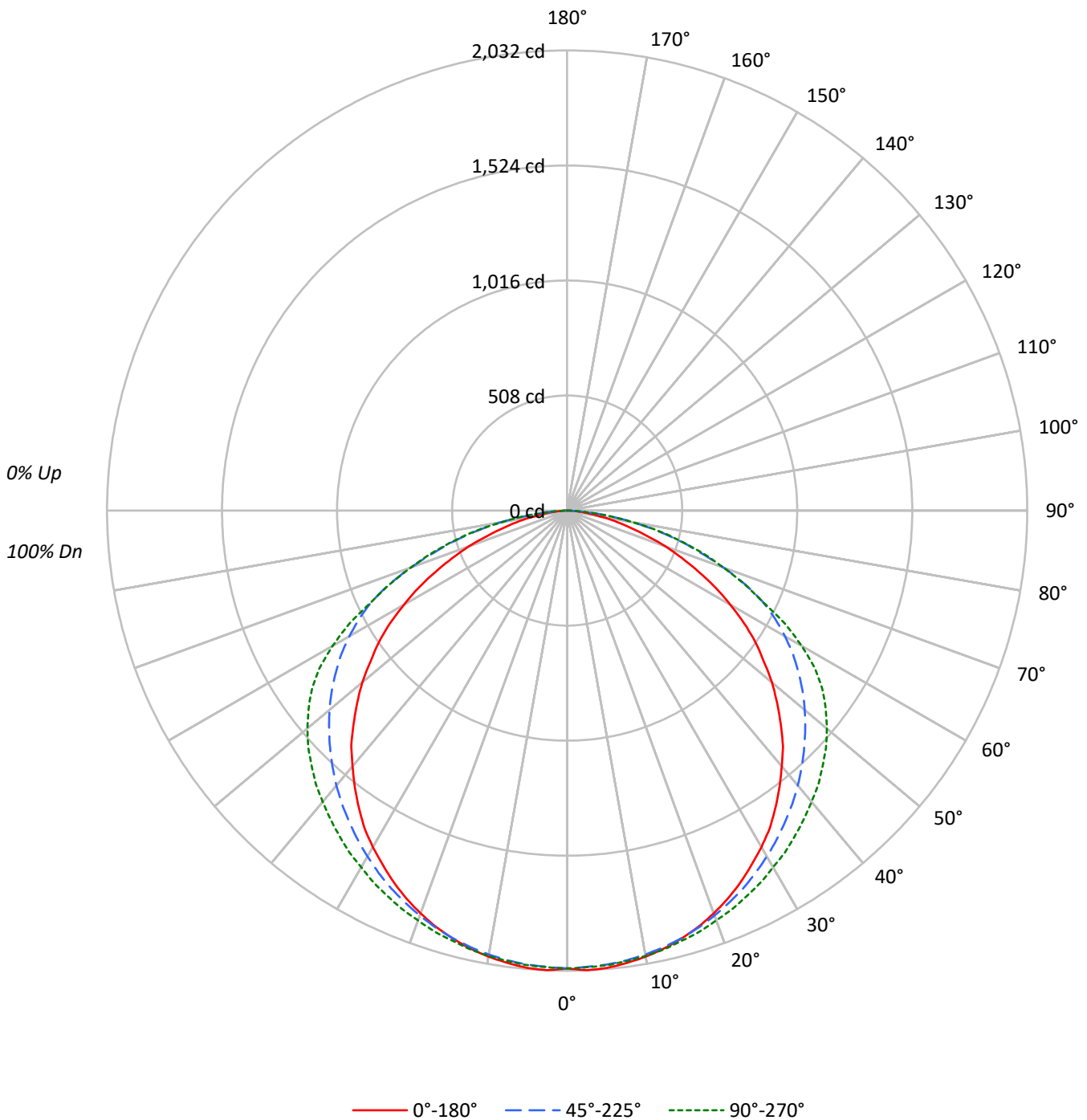
Input Watts (W): 71.02
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2720	2720	2720
5°	2737	2717	2722
10°	2733	2719	2728
15°	2724	2722	2738
20°	2710	2724	2758
25°	2690	2731	2788
30°	2666	2740	2825
35°	2633	2756	2881
40°	2589	2784	2950
45°	2538	2818	3035
50°	2473	2868	3134
55°	2383	2926	3229
60°	2239	2988	3219
65°	2044	3034	3029
70°	1816	2884	2884
75°	1480	2658	2692
80°	1141	2295	2256
85°	792	1507	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	3.0
10°-20°	552.4	8.7
20°-30°	849.2	13.4
30°-40°	1050.5	16.5
40°-50°	1137.4	17.9
50°-60°	1090.9	17.2
60°-70°	865.9	13.6
70°-80°	497.3	7.8
80°-90°	114.2	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°	1593.1	25.1
0°-40°	2643.7	41.6
0°-60°	4871.9	76.7
0°-90°	6349.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6349.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	2027	2017	2012	2009	2015	193
15°	1956	1951	1954	1957	1966	552
25°	1812	1817	1840	1863	1878	835
35°	1603	1625	1678	1729	1754	1003
45°	1334	1385	1481	1564	1595	1029
55°	1016	1105	1248	1342	1377	905
65°	642	794	953	966	951	638
75°	285	458	511	516	518	309
85°	51	89	98	93	91	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2021.8	2021.8	2021.8	2021.8	2021.8
2.5°	2031.8	2021.8	2016.9	2013.6	2018.5
5°	2026.8	2016.9	2011.9	2008.6	2015.2
7.5°	2015.2	2006.9	2003.6	2002.0	2006.9
10°	2000.3	1992.1	1990.4	1988.7	1997.0
12.5°	1980.5	1973.9	1973.9	1973.9	1983.8
15°	1955.7	1950.7	1954.0	1957.3	1965.6
17.5°	1927.5	1922.6	1930.8	1937.5	1949.0
20°	1892.8	1892.8	1902.7	1912.6	1925.9
22.5°	1854.7	1858.0	1872.9	1889.5	1904.4
25°	1811.7	1816.7	1839.8	1863.0	1877.9
27.5°	1763.7	1773.7	1803.4	1833.2	1851.4
30°	1715.7	1725.7	1763.7	1800.1	1818.3
32.5°	1664.5	1676.0	1722.4	1765.4	1790.2
35°	1603.2	1624.7	1677.7	1729.0	1753.8
37.5°	1540.4	1570.1	1633.0	1690.9	1717.4
40°	1474.2	1510.6	1585.0	1651.2	1679.3
42.5°	1411.3	1449.4	1533.8	1608.2	1641.3
45°	1333.6	1384.8	1480.8	1563.5	1595.0
47.5°	1257.4	1318.7	1426.2	1513.9	1550.3
50°	1181.3	1249.2	1370.0	1465.9	1497.4
52.5°	1095.3	1178.0	1310.4	1406.4	1439.4
55°	1015.9	1105.2	1247.5	1341.8	1376.6
57.5°	928.2	1029.1	1183.0	1275.6	1297.2
60°	832.2	951.4	1110.2	1189.6	1196.2
62.5°	741.2	875.2	1035.7	1085.4	1087.0
65°	642.0	794.2	953.0	966.2	951.4
67.5°	549.3	708.1	850.4	840.5	845.5
70°	461.6	627.1	733.0	737.9	733.0
72.5°	365.7	542.7	617.1	628.7	630.4
75°	284.6	458.3	511.3	516.2	517.9
77.5°	216.7	367.3	398.7	407.0	412.0
80°	147.3	256.5	296.2	299.5	291.2
82.5°	96.0	165.5	188.6	188.6	187.0
85°	51.3	89.3	97.6	92.7	91.0
87.5°	18.2	26.5	29.8	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)