

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: P225675

Luminaire Tested: **24AC-LD5-73-RDP-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: P225675
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-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6224.8 lumens
Efficiency: N/A
Efficacy: 87.6 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

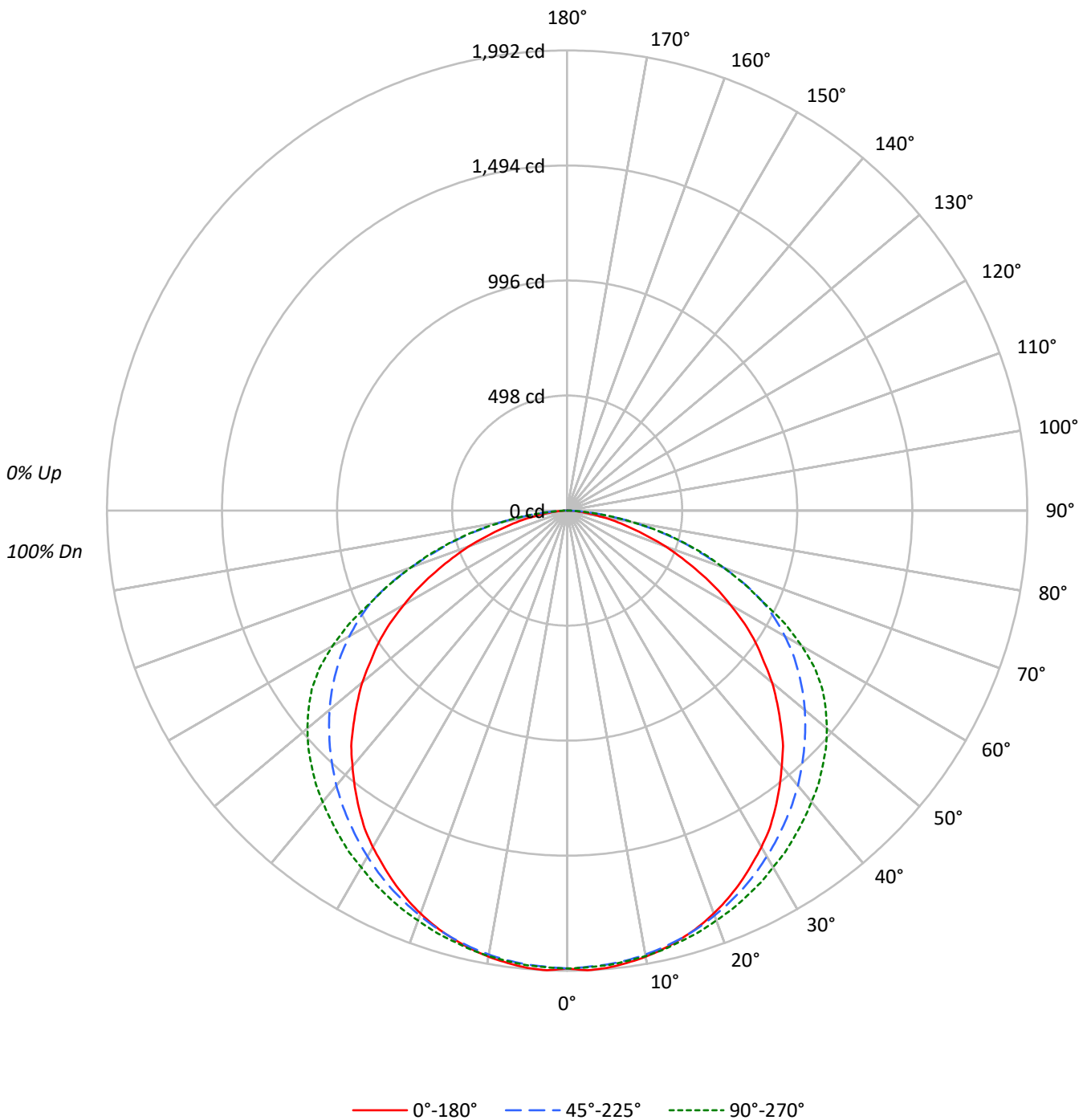
Input Watts (W): 71.02
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2667	2667	2667
5°	2684	2664	2668
10°	2679	2666	2675
15°	2671	2668	2684
20°	2657	2671	2703
25°	2637	2678	2733
30°	2613	2686	2770
35°	2582	2702	2824
40°	2539	2729	2892
45°	2488	2762	2975
50°	2424	2811	3073
55°	2336	2869	3166
60°	2196	2929	3156
65°	2004	2975	2969
70°	1781	2827	2827
75°	1450	2606	2639
80°	1119	2250	2212
85°	777	1477	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	3.0
10°-20°	541.5	8.7
20°-30°	832.5	13.4
30°-40°	1029.9	16.5
40°-50°	1115.1	17.9
50°-60°	1069.5	17.2
60°-70°	848.9	13.6
70°-80°	487.5	7.8
80°-90°	112.0	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°	1561.9	25.1
0°-40°	2591.9	41.6
0°-60°	4776.4	76.7
0°-90°	6224.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6224.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1987	1977	1972	1969	1976	189
15°	1917	1912	1916	1919	1927	541
25°	1776	1781	1804	1826	1841	818
35°	1572	1593	1645	1695	1719	983
45°	1307	1358	1452	1533	1564	1009
55°	996	1084	1223	1316	1350	887
65°	629	779	934	947	933	625
75°	279	449	501	506	508	303
85°	50	88	96	91	89	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1982.2	1982.2	1982.2	1982.2	1982.2
2.5°	1991.9	1982.2	1977.3	1974.1	1978.9
5°	1987.1	1977.3	1972.5	1969.2	1975.7
7.5°	1975.7	1967.6	1964.4	1962.7	1967.6
10°	1961.1	1953.0	1951.4	1949.8	1957.9
12.5°	1941.6	1935.2	1935.2	1935.2	1944.9
15°	1917.3	1912.4	1915.7	1918.9	1927.0
17.5°	1889.7	1884.9	1893.0	1899.5	1910.8
20°	1855.7	1855.7	1865.4	1875.1	1888.1
22.5°	1818.4	1821.6	1836.2	1852.4	1867.0
25°	1776.2	1781.1	1803.8	1826.5	1841.1
27.5°	1729.1	1738.9	1768.1	1797.3	1815.1
30°	1682.1	1691.8	1729.1	1764.8	1782.7
32.5°	1631.8	1643.2	1688.6	1730.8	1755.1
35°	1571.8	1592.9	1644.8	1695.1	1719.4
37.5°	1510.2	1539.4	1601.0	1657.8	1683.7
40°	1445.3	1481.0	1554.0	1618.8	1646.4
42.5°	1383.6	1421.0	1503.7	1576.7	1609.1
45°	1307.4	1357.7	1451.8	1532.9	1563.7
47.5°	1232.8	1292.8	1398.2	1484.2	1519.9
50°	1158.2	1224.7	1343.1	1437.2	1468.0
52.5°	1073.8	1154.9	1284.7	1378.8	1411.2
55°	996.0	1083.6	1223.1	1315.5	1349.6
57.5°	910.0	1008.9	1159.8	1250.6	1271.7
60°	815.9	932.7	1088.4	1166.3	1172.8
62.5°	726.7	858.1	1015.4	1064.1	1065.7
65°	629.4	778.6	934.3	947.3	932.7
67.5°	538.5	694.3	833.8	824.0	828.9
70°	452.6	614.8	718.6	723.5	718.6
72.5°	358.5	532.0	605.0	616.4	618.0
75°	279.0	449.3	501.2	506.1	507.7
77.5°	212.5	360.1	390.9	399.0	403.9
80°	144.4	251.4	290.4	293.6	285.5
82.5°	94.1	162.2	184.9	184.9	183.3
85°	50.3	87.6	95.7	90.8	89.2
87.5°	17.8	26.0	29.2	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)