

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: P219103

Luminaire Tested: **24GR-LD5-48-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4145.9 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

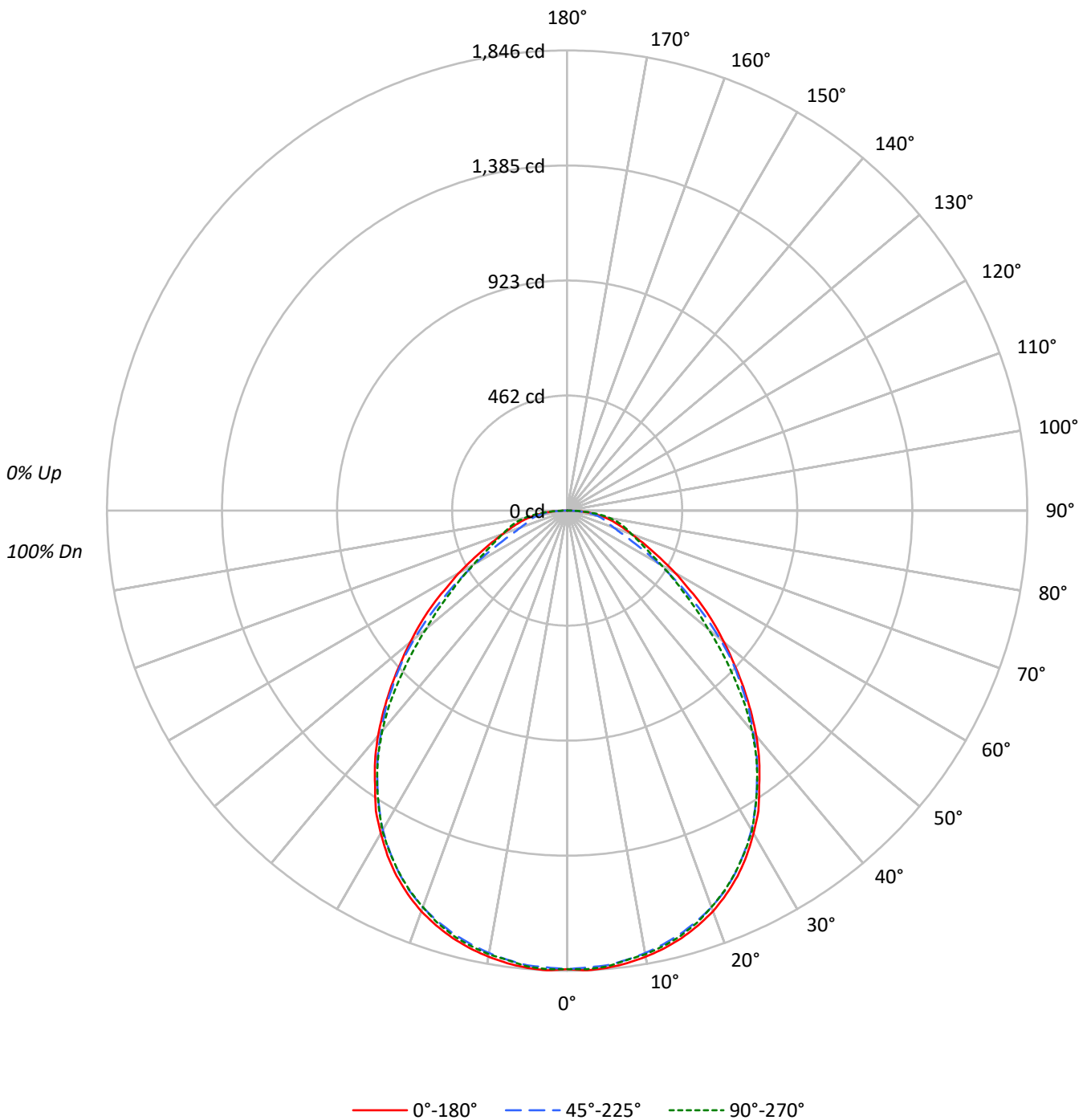
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2817	2817	2817
5°	2831	2815	2822
10°	2826	2803	2811
15°	2815	2787	2799
20°	2788	2760	2759
25°	2734	2705	2703
30°	2644	2617	2622
35°	2511	2482	2486
40°	2361	2320	2306
45°	2164	2135	2050
50°	1957	1903	1760
55°	1757	1599	1517
60°	1538	1287	1334
65°	1342	1012	1228
70°	1227	884	1227
75°	1228	940	1353
80°	1333	1107	1542
85°	1464	1249	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	4.2
10°-20°	497.1	12.0
20°-30°	737.1	17.8
30°-40°	831.6	20.1
40°-50°	753.2	18.2
50°-60°	543.3	13.1
60°-70°	324.4	7.8
70°-80°	200.5	4.8
80°-90°	84.5	2.0
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°	1408.4	34.0
0°-40°	2240.0	54.0
0°-60°	3536.5	85.3
0°-90°	4145.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4145.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1841	1839	1831	1829	1836	175
15°	1775	1764	1758	1758	1765	500
25°	1618	1609	1601	1595	1599	743
35°	1343	1341	1328	1328	1330	840
45°	999	993	986	961	947	770
55°	658	637	599	569	568	587
65°	370	326	279	317	339	372
75°	208	180	159	198	229	222
85°	83	73	71	93	94	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1839.5	1839.5	1839.5	1839.5	1839.5
2.5°	1845.9	1840.8	1834.4	1838.2	1841.4
5°	1841.4	1838.8	1831.2	1829.2	1835.7
7.5°	1831.8	1825.4	1818.3	1821.6	1819.0
10°	1817.0	1811.3	1802.3	1802.9	1807.4
12.5°	1799.1	1792.1	1782.4	1785.0	1788.9
15°	1775.4	1764.5	1757.5	1758.1	1765.2
17.5°	1745.3	1737.0	1728.0	1729.9	1733.2
20°	1710.7	1706.3	1693.5	1689.6	1692.8
22.5°	1667.2	1658.9	1651.8	1649.9	1650.5
25°	1617.9	1608.9	1600.6	1594.9	1599.3
27.5°	1560.3	1552.5	1541.6	1539.8	1543.6
30°	1494.9	1489.1	1479.5	1477.0	1482.7
32.5°	1428.3	1418.6	1405.2	1405.2	1406.5
35°	1343.1	1341.2	1327.7	1328.4	1329.7
37.5°	1266.2	1257.3	1249.6	1241.9	1245.8
40°	1181.1	1170.8	1160.6	1155.4	1153.5
42.5°	1089.4	1081.8	1077.3	1058.8	1054.3
45°	999.2	992.7	985.7	961.4	946.6
47.5°	907.0	905.7	899.9	857.0	842.3
50°	821.1	819.1	798.7	753.2	738.5
52.5°	739.8	726.9	700.1	655.2	652.6
55°	657.8	637.2	598.8	569.4	568.1
57.5°	571.3	547.0	507.9	491.9	500.2
60°	502.2	465.0	420.2	422.1	435.5
62.5°	430.4	388.8	344.6	363.8	379.8
65°	370.2	326.0	279.2	317.0	338.8
67.5°	317.6	276.7	231.9	282.5	303.6
70°	274.1	240.8	197.3	250.4	274.1
72.5°	239.5	208.8	174.8	224.8	252.4
75°	207.5	179.9	158.9	197.9	228.6
77.5°	179.9	153.1	143.5	174.8	204.9
80°	151.1	126.8	125.5	152.4	174.8
82.5°	117.8	101.2	101.2	127.4	140.9
85°	83.3	73.0	71.1	92.9	94.2
87.5°	42.9	41.0	37.1	48.7	48.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)