

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: P219073

Luminaire Tested: **24GR-LD5-48-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F1-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.5 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

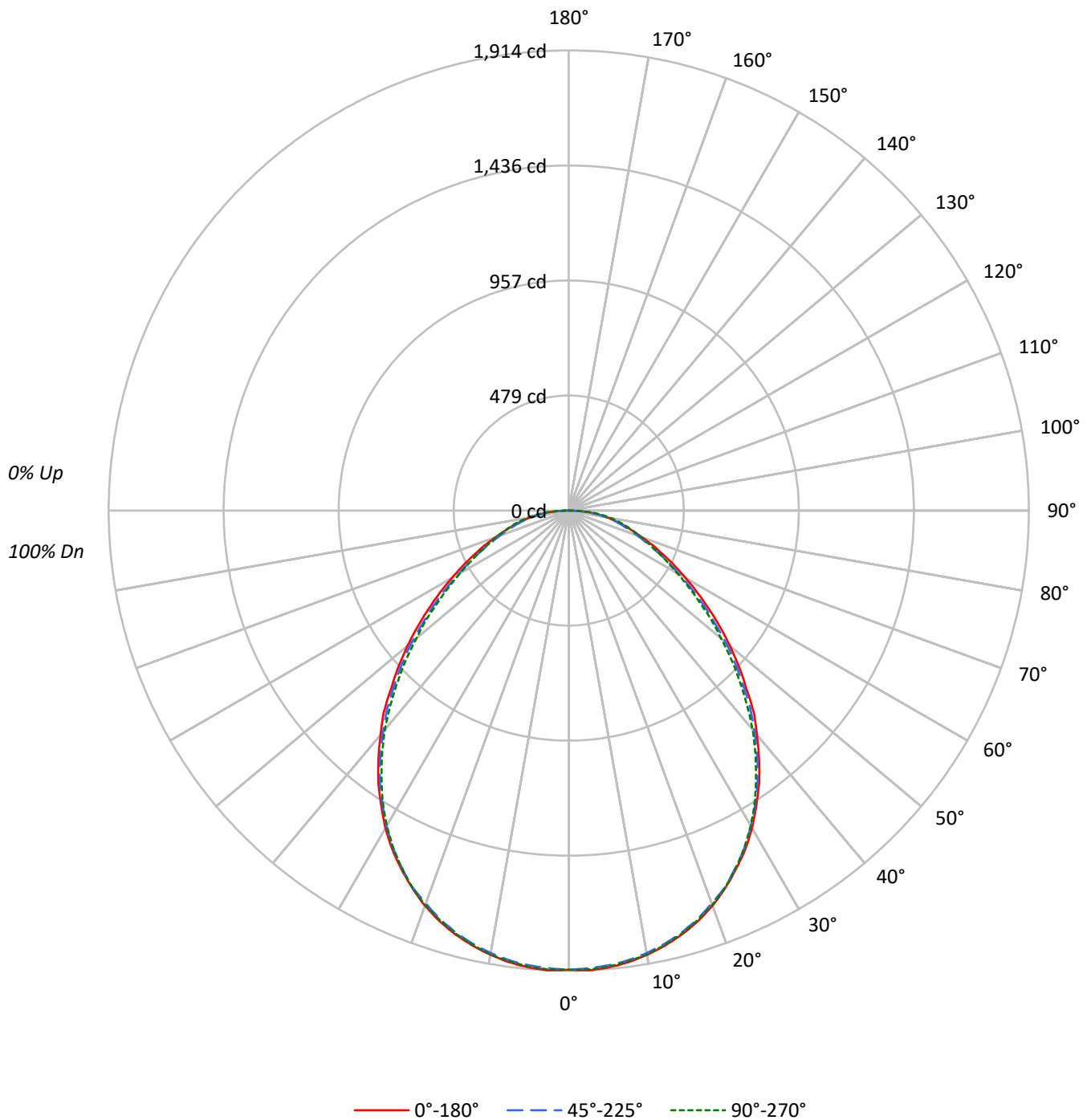
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			94	92	90			91
2	100	92	86	80	98	90	85	80		87	82	78			84	80	76			81
3	92	82	74	68	89	80	73	67		77	71	66			75	69	65			72
4	85	73	65	58	82	72	64	58		69	63	57			67	61	57			65
5	78	66	57	51	76	65	57	51		63	56	50			61	55	50			59
6	72	60	51	45	71	59	51	45		57	50	44			55	49	44			54
7	67	54	46	40	66	54	46	40		52	45	40			51	44	39			49
8	63	50	42	36	61	49	41	36		48	41	36			47	40	36			46
9	59	46	38	33	58	45	38	33		44	37	32			43	37	32			42
10	55	43	35	30	54	42	35	30		41	34	30			40	34	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2926	2926	2926
5°	2933	2919	2927
10°	2918	2906	2916
15°	2894	2881	2887
20°	2851	2834	2846
25°	2782	2772	2775
30°	2697	2681	2676
35°	2583	2562	2539
40°	2434	2403	2379
45°	2262	2221	2180
50°	2085	2031	1970
55°	1896	1829	1773
60°	1718	1627	1597
65°	1570	1466	1476
70°	1445	1361	1426
75°	1404	1331	1453
80°	1408	1371	1547
85°	1548	1464	1705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	4.0
10°-20°	512.2	11.5
20°-30°	754.8	16.9
30°-40°	853.5	19.1
40°-50°	791.7	17.7
50°-60°	615.1	13.8
60°-70°	412.5	9.2
70°-80°	247.2	5.5
80°-90°	94.0	2.1
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°	1447.4	32.4
0°-40°	2301.0	51.6
0°-60°	3707.8	83.1
0°-90°	4461.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1908	1902	1898	1897	1904	181
15°	1825	1817	1817	1813	1821	514
25°	1646	1644	1640	1638	1642	758
35°	1381	1376	1370	1362	1358	861
45°	1044	1040	1026	1010	1006	807
55°	710	702	685	668	664	637
65°	433	420	404	403	407	433
75°	237	229	225	236	246	251
85°	88	82	83	98	97	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1914.4	1908.2	1905.4	1904.0	1910.2
5°	1907.5	1902.0	1898.5	1897.2	1904.0
7.5°	1895.1	1888.9	1886.8	1884.1	1891.0
10°	1876.5	1871.0	1868.2	1866.1	1875.1
12.5°	1853.1	1848.3	1845.6	1844.2	1849.7
15°	1824.9	1817.4	1816.6	1813.2	1820.8
17.5°	1789.8	1783.0	1781.6	1780.2	1785.0
20°	1749.2	1742.4	1738.9	1738.2	1745.8
22.5°	1700.4	1695.6	1697.0	1692.9	1698.3
25°	1646.1	1644.0	1640.5	1637.8	1641.9
27.5°	1589.7	1582.8	1582.8	1577.3	1581.4
30°	1525.0	1520.2	1516.1	1510.5	1513.3
32.5°	1452.1	1450.0	1443.8	1438.3	1439.7
35°	1381.2	1375.7	1370.2	1362.0	1357.8
37.5°	1300.0	1294.6	1287.6	1276.0	1274.6
40°	1217.5	1212.7	1201.7	1189.3	1190.0
42.5°	1139.1	1131.5	1117.8	1101.3	1097.8
45°	1044.1	1040.0	1025.6	1009.8	1006.4
47.5°	959.6	956.9	938.9	922.5	918.3
50°	875.0	867.4	852.3	835.7	826.8
52.5°	791.7	782.1	762.9	751.8	747.7
55°	709.9	701.6	685.1	667.9	663.8
57.5°	633.5	624.6	604.6	592.2	590.2
60°	560.7	552.4	531.1	522.1	521.4
62.5°	496.0	482.2	467.7	461.6	462.3
65°	433.3	419.6	404.5	403.1	407.2
67.5°	378.3	363.9	348.7	354.3	358.4
70°	322.6	312.3	304.0	312.9	318.5
72.5°	275.2	269.0	261.4	273.7	280.6
75°	237.3	229.0	225.0	236.0	245.6
77.5°	196.7	189.8	189.8	201.6	211.8
80°	159.6	154.8	155.4	169.3	175.4
82.5°	125.2	118.3	119.0	136.2	140.3
85°	88.1	82.5	83.3	97.6	97.0
87.5°	46.0	44.0	46.0	56.4	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)