

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: P219044

Luminaire Tested: **24GR-LD5-56-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219044
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-LD5-56-F1-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4775.3 lumens
Efficiency: N/A
Efficacy: 105.7 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

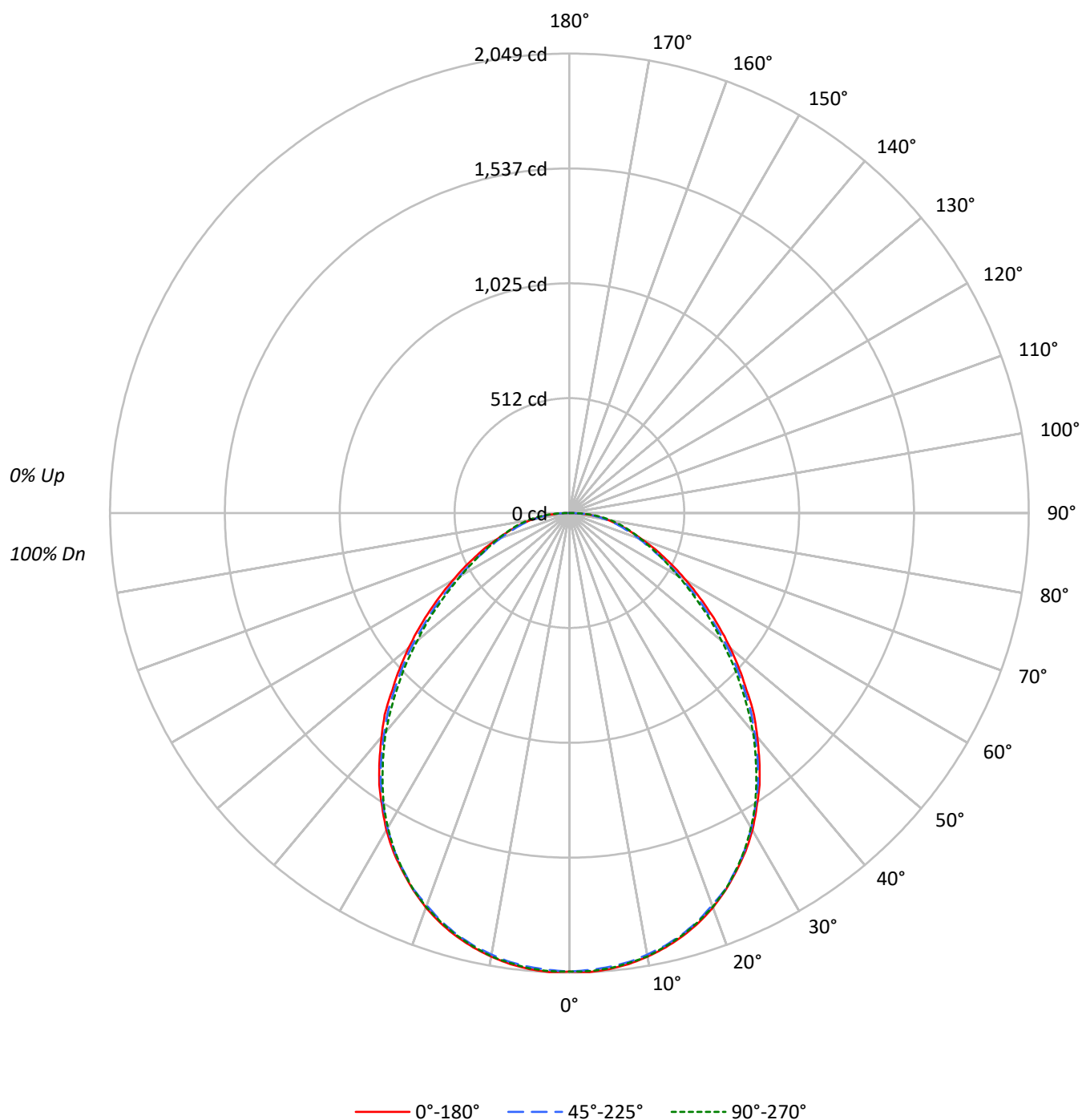
Input Watts (W): 45.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3132	3132	3132
5°	3139	3124	3133
10°	3124	3110	3121
15°	3097	3083	3090
20°	3052	3034	3046
25°	2978	2967	2970
30°	2887	2870	2865
35°	2764	2742	2717
40°	2605	2572	2547
45°	2421	2378	2333
50°	2231	2174	2109
55°	2029	1958	1897
60°	1838	1741	1710
65°	1681	1569	1580
70°	1546	1458	1526
75°	1503	1424	1555
80°	1507	1468	1656
85°	1657	1566	1824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	4.0
10°-20°	548.2	11.5
20°-30°	807.8	16.9
30°-40°	913.6	19.1
40°-50°	847.4	17.7
50°-60°	658.3	13.8
60°-70°	441.5	9.2
70°-80°	264.6	5.5
80°-90°	100.7	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°	1549.2	32.4
0°-40°	2462.8	51.6
0°-60°	3968.6	83.1
0°-90°	4775.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4775.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2042	2036	2032	2031	2038	194
15°	1953	1945	1944	1941	1949	550
25°	1762	1760	1756	1753	1758	811
35°	1478	1472	1467	1458	1453	921
45°	1118	1113	1098	1081	1077	864
55°	760	751	733	715	710	682
65°	464	449	433	432	436	463
75°	254	245	241	252	263	268
85°	94	88	89	105	104	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2044.6	2044.6	2044.6	2044.6	2044.6
2.5°	2049.0	2042.4	2039.4	2038.0	2044.6
5°	2041.6	2035.8	2032.1	2030.6	2038.0
7.5°	2028.4	2021.7	2019.5	2016.6	2023.9
10°	2008.5	2002.6	1999.6	1997.4	2007.0
12.5°	1983.5	1978.3	1975.4	1973.9	1979.8
15°	1953.3	1945.1	1944.5	1940.7	1948.9
17.5°	1915.7	1908.3	1906.9	1905.4	1910.5
20°	1872.3	1864.9	1861.2	1860.5	1868.6
22.5°	1820.0	1814.8	1816.4	1811.9	1817.8
25°	1761.9	1759.7	1755.9	1753.0	1757.5
27.5°	1701.4	1694.1	1694.1	1688.2	1692.6
30°	1632.3	1627.2	1622.7	1616.8	1619.8
32.5°	1554.2	1552.0	1545.4	1539.5	1541.0
35°	1478.4	1472.5	1466.6	1457.8	1453.3
37.5°	1391.5	1385.6	1378.3	1365.8	1364.2
40°	1303.1	1298.0	1286.2	1273.0	1273.7
42.5°	1219.2	1211.2	1196.4	1178.8	1175.0
45°	1117.7	1113.2	1097.8	1080.8	1077.1
47.5°	1027.1	1024.2	1005.0	987.3	982.9
50°	936.5	928.5	912.2	894.5	884.9
52.5°	847.4	837.1	816.5	804.7	800.3
55°	759.8	751.0	733.3	714.9	710.5
57.5°	678.0	668.5	647.2	633.9	631.7
60°	600.0	591.2	568.4	558.8	558.1
62.5°	530.8	516.1	500.6	494.0	494.8
65°	463.8	449.1	432.9	431.5	435.9
67.5°	404.9	389.5	373.3	379.2	383.6
70°	345.3	334.2	325.5	335.0	340.8
72.5°	294.5	287.9	279.7	293.0	300.4
75°	254.0	245.1	240.7	252.5	262.8
77.5°	210.5	203.2	203.2	215.7	226.8
80°	170.8	165.7	166.4	181.1	187.8
82.5°	134.0	126.6	127.3	145.8	150.2
85°	94.3	88.3	89.1	104.6	103.8
87.5°	49.3	47.1	49.3	60.4	57.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)