

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: P219071

Luminaire Tested: **24GR-LD5-38-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219071
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-LD5-38-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: 3590.6 lumens
Efficiency: N/A
Efficacy: 117.2 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

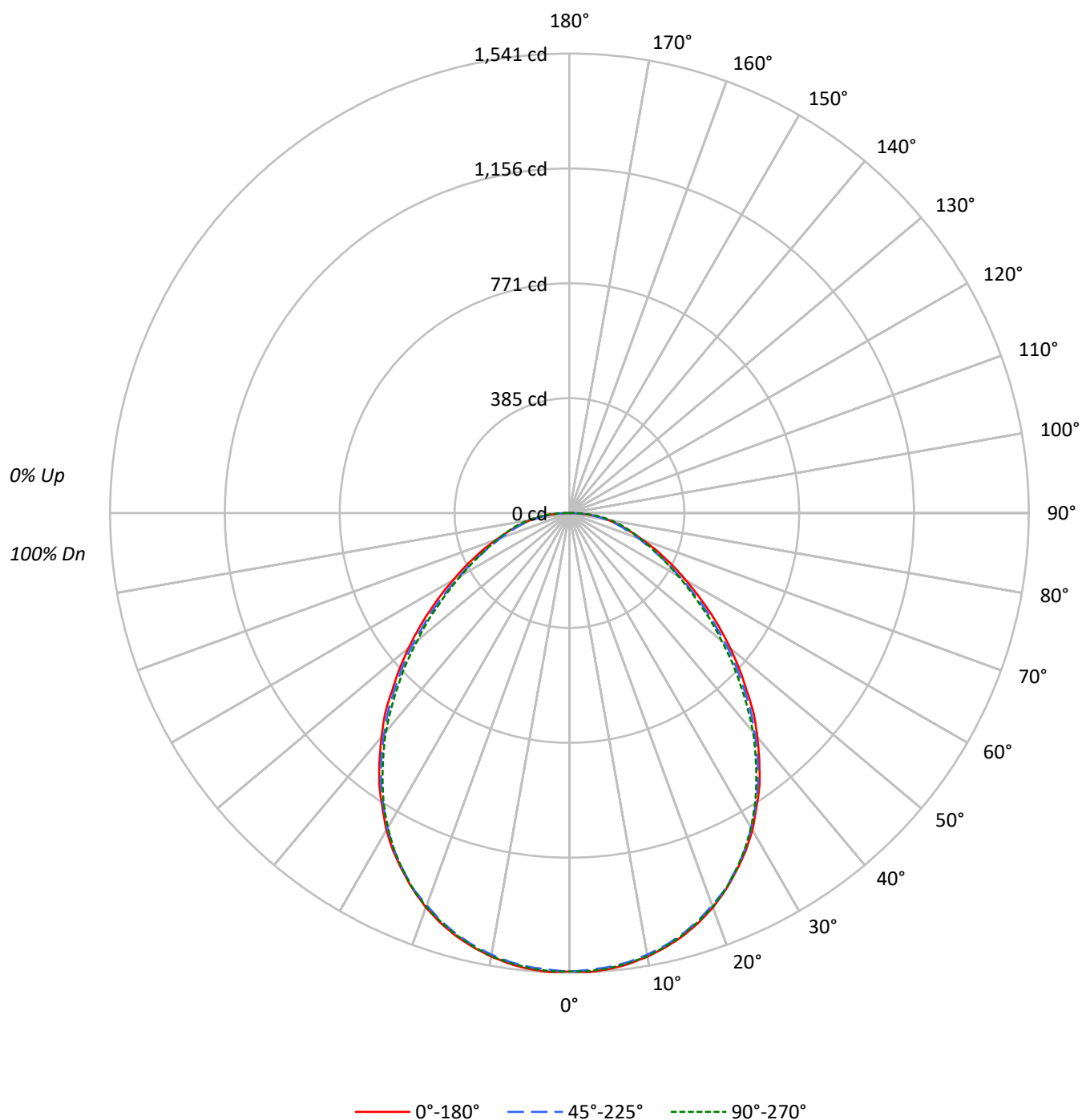
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2355	2355	2355
5°	2360	2349	2356
10°	2349	2338	2347
15°	2329	2318	2324
20°	2295	2281	2290
25°	2239	2231	2233
30°	2171	2158	2154
35°	2079	2062	2043
40°	1959	1934	1915
45°	1820	1788	1754
50°	1678	1635	1586
55°	1526	1472	1427
60°	1382	1309	1285
65°	1264	1180	1188
70°	1163	1096	1148
75°	1130	1071	1170
80°	1133	1103	1245
85°	1246	1177	1372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.0
10°-20°	412.2	11.5
20°-30°	607.4	16.9
30°-40°	686.9	19.1
40°-50°	637.2	17.7
50°-60°	495.0	13.8
60°-70°	331.9	9.2
70°-80°	198.9	5.5
80°-90°	75.7	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°	1164.9	32.4
0°-40°	1851.8	51.6
0°-60°	2984.0	83.1
0°-90°	3590.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3590.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1535	1531	1528	1527	1532	146
15°	1469	1463	1462	1459	1465	414
25°	1325	1323	1320	1318	1321	610
35°	1112	1107	1103	1096	1093	693
45°	840	837	826	813	810	650
55°	571	565	551	538	534	513
65°	349	338	326	324	328	348
75°	191	184	181	190	198	202
85°	71	66	67	79	78	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1540.6	1535.7	1533.4	1532.3	1537.4
5°	1535.2	1530.7	1528.0	1526.8	1532.3
7.5°	1525.2	1520.2	1518.5	1516.3	1521.9
10°	1510.2	1505.8	1503.6	1502.0	1509.1
12.5°	1491.4	1487.5	1485.3	1484.2	1488.7
15°	1468.7	1462.6	1462.1	1459.3	1465.4
17.5°	1440.4	1435.0	1433.8	1432.7	1436.6
20°	1407.8	1402.3	1399.5	1398.9	1405.0
22.5°	1368.5	1364.6	1365.7	1362.5	1366.8
25°	1324.8	1323.1	1320.3	1318.1	1321.4
27.5°	1279.4	1273.8	1273.8	1269.4	1272.7
30°	1227.3	1223.5	1220.1	1215.7	1217.9
32.5°	1168.6	1167.0	1162.0	1157.6	1158.7
35°	1111.7	1107.2	1102.7	1096.1	1092.8
37.5°	1046.3	1041.9	1036.3	1026.9	1025.8
40°	979.9	976.0	967.1	957.1	957.8
42.5°	916.7	910.6	899.6	886.3	883.5
45°	840.4	837.0	825.5	812.7	809.9
47.5°	772.3	770.0	755.7	742.4	739.1
50°	704.2	698.1	686.0	672.6	665.4
52.5°	637.2	629.4	614.0	605.1	601.8
55°	571.3	564.7	551.4	537.5	534.3
57.5°	509.9	502.7	486.6	476.7	475.0
60°	451.2	444.5	427.3	420.1	419.6
62.5°	399.1	388.1	376.5	371.5	372.0
65°	348.8	337.7	325.5	324.4	327.7
67.5°	304.5	292.8	280.6	285.1	288.5
70°	259.6	251.3	244.7	251.9	256.3
72.5°	221.4	216.5	210.4	220.3	225.9
75°	191.0	184.4	181.0	189.9	197.7
77.5°	158.3	152.8	152.8	162.2	170.5
80°	128.4	124.6	125.1	136.2	141.1
82.5°	100.7	95.2	95.7	109.7	112.9
85°	70.9	66.4	67.0	78.6	78.1
87.5°	37.1	35.4	37.1	45.4	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)