

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: P219088

Luminaire Tested: **24GR-LD5-48-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219088
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-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.8 lumens
Efficiency: N/A
Efficacy: 104.9 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

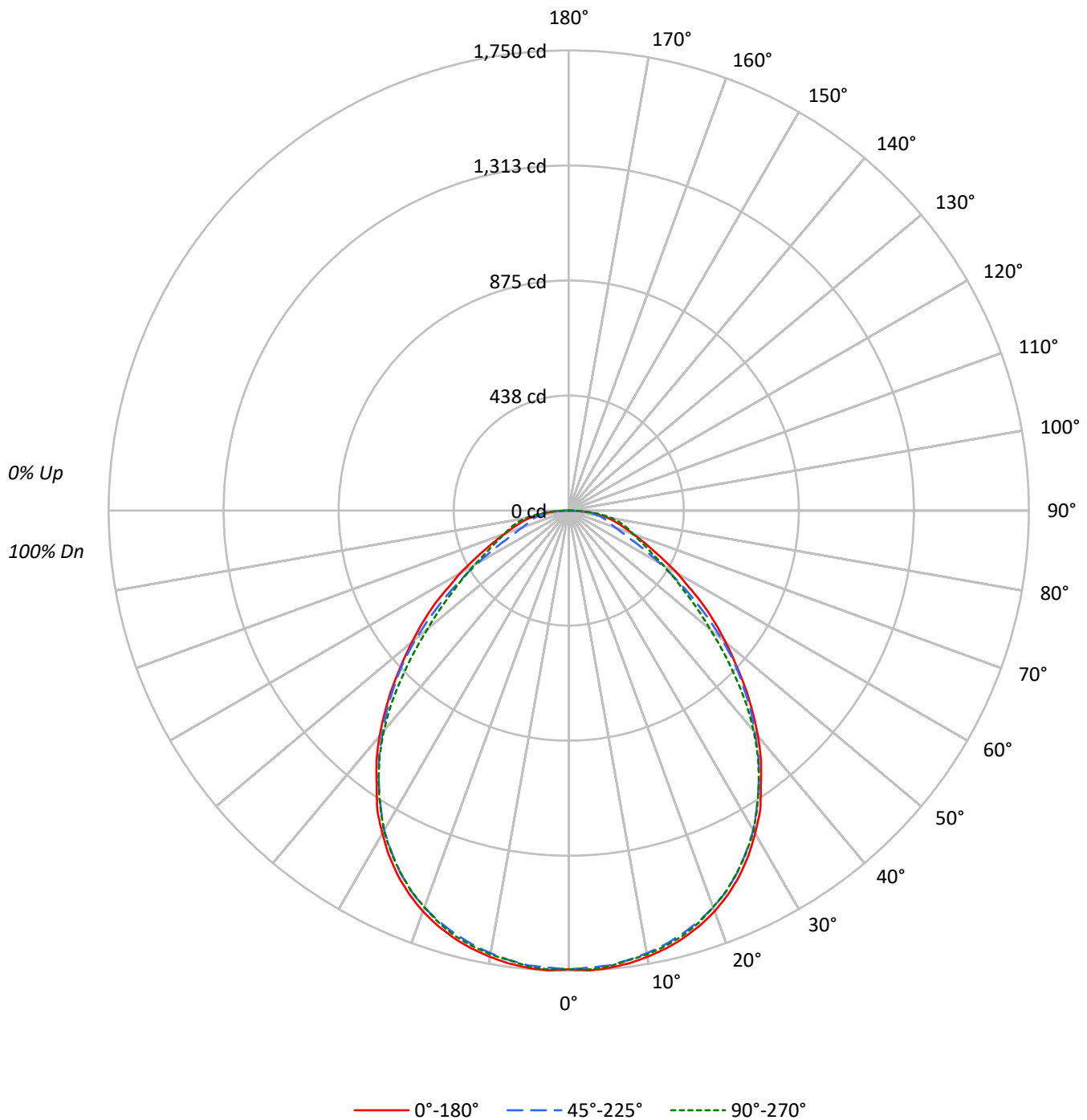
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	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°	2672	2672	2672
5°	2685	2670	2677
10°	2680	2658	2666
15°	2670	2643	2654
20°	2644	2618	2617
25°	2593	2565	2563
30°	2507	2481	2487
35°	2382	2354	2358
40°	2239	2201	2187
45°	2053	2025	1944
50°	1855	1805	1669
55°	1666	1516	1438
60°	1459	1220	1265
65°	1272	960	1165
70°	1164	837	1164
75°	1165	891	1283
80°	1264	1050	1462
85°	1388	1184	1569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	4.2
10°-20°	471.4	12.0
20°-30°	699.1	17.8
30°-40°	788.6	20.1
40°-50°	714.2	18.2
50°-60°	515.3	13.1
60°-70°	307.7	7.8
70°-80°	190.1	4.8
80°-90°	80.1	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°	1335.7	34.0
0°-40°	2124.3	54.0
0°-60°	3353.8	85.3
0°-90°	3931.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1746	1744	1737	1735	1741	166
15°	1684	1673	1667	1667	1674	475
25°	1534	1526	1518	1512	1517	705
35°	1274	1272	1259	1260	1261	797
45°	948	942	935	912	898	730
55°	624	604	568	540	539	557
65°	351	309	265	301	321	353
75°	197	171	151	188	217	210
85°	79	69	67	88	89	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1750.5	1745.7	1739.6	1743.2	1746.3
5°	1746.3	1743.9	1736.6	1734.8	1740.9
7.5°	1737.2	1731.1	1724.5	1727.5	1725.0
10°	1723.2	1717.7	1709.3	1709.9	1714.1
12.5°	1706.2	1699.5	1690.4	1692.9	1696.5
15°	1683.7	1673.4	1666.7	1667.3	1674.0
17.5°	1655.2	1647.3	1638.8	1640.6	1643.7
20°	1622.4	1618.1	1606.0	1602.4	1605.4
22.5°	1581.1	1573.2	1566.5	1564.7	1565.3
25°	1534.3	1525.8	1517.9	1512.5	1516.7
27.5°	1479.7	1472.4	1462.1	1460.2	1463.9
30°	1417.7	1412.2	1403.1	1400.7	1406.1
32.5°	1354.6	1345.4	1332.7	1332.7	1333.9
35°	1273.7	1271.9	1259.2	1259.8	1261.0
37.5°	1200.9	1192.4	1185.1	1177.8	1181.4
40°	1120.0	1110.4	1100.6	1095.8	1094.0
42.5°	1033.2	1025.9	1021.6	1004.0	999.8
45°	947.6	941.5	934.8	911.8	897.7
47.5°	860.1	858.9	853.4	812.7	798.8
50°	778.7	776.9	757.4	714.3	700.4
52.5°	701.6	689.4	663.9	621.4	618.9
55°	623.8	604.3	567.9	540.0	538.7
57.5°	541.8	518.7	481.7	466.5	474.4
60°	476.2	441.0	398.4	400.3	413.0
62.5°	408.2	368.7	326.8	345.0	360.2
65°	351.1	309.1	264.9	300.7	321.4
67.5°	301.3	262.4	219.8	267.9	287.9
70°	259.9	228.4	187.0	237.5	259.9
72.5°	227.1	198.0	165.8	213.2	239.4
75°	196.8	170.6	150.6	187.7	216.8
77.5°	170.6	145.1	136.0	165.8	194.3
80°	143.3	120.3	119.1	144.6	165.8
82.5°	111.8	95.9	95.9	120.9	133.7
85°	79.0	69.2	67.4	88.1	89.3
87.5°	40.7	38.9	35.3	46.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)