

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: P219090

Luminaire Tested: **24GR-LD5-64-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219090
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-LD5-64-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: 5270.1 lumens
Efficiency: N/A
Efficacy: 109.5 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

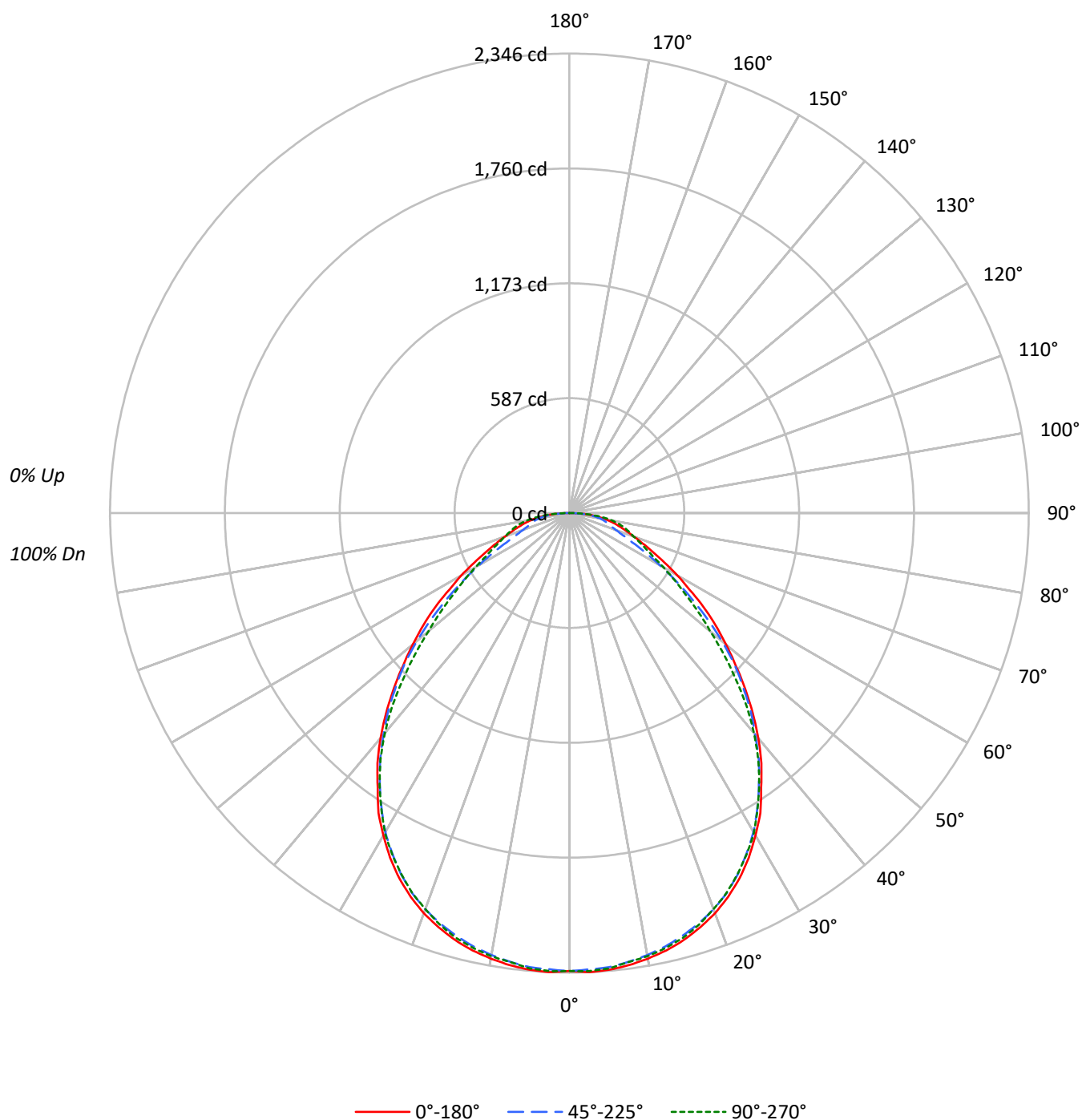
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3581	3581	3581
5°	3599	3579	3588
10°	3592	3563	3573
15°	3579	3543	3558
20°	3544	3509	3507
25°	3476	3438	3436
30°	3361	3326	3333
35°	3192	3156	3160
40°	3002	2950	2932
45°	2751	2714	2607
50°	2487	2419	2237
55°	2233	2033	1928
60°	1955	1636	1696
65°	1706	1287	1561
70°	1561	1123	1561
75°	1561	1195	1720
80°	1694	1408	1961
85°	1861	1589	2104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	4.2
10°-20°	631.9	12.0
20°-30°	937.0	17.8
30°-40°	1057.0	20.1
40°-50°	957.4	18.2
50°-60°	690.7	13.1
60°-70°	412.4	7.8
70°-80°	254.9	4.8
80°-90°	107.4	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°	1790.3	34.0
0°-40°	2847.4	54.0
0°-60°	4495.4	85.3
0°-90°	5270.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5270.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2338	2338	2338	2338	2338	
5°	2341	2338	2328	2325	2333	222
15°	2257	2243	2234	2235	2244	636
25°	2057	2045	2035	2027	2033	945
35°	1707	1705	1688	1688	1690	1068
45°	1270	1262	1253	1222	1203	979
55°	836	810	761	724	722	746
65°	471	414	355	403	431	473
75°	264	229	202	252	291	282
85°	106	93	90	118	120	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2338.3	2338.3	2338.3	2338.3	2338.3
2.5°	2346.4	2339.9	2331.8	2336.7	2340.7
5°	2340.7	2337.5	2327.7	2325.3	2333.4
7.5°	2328.5	2320.4	2311.4	2315.5	2312.2
10°	2309.8	2302.5	2291.1	2291.9	2297.6
12.5°	2287.0	2278.0	2265.8	2269.1	2273.9
15°	2256.9	2243.0	2234.1	2234.9	2243.8
17.5°	2218.6	2208.0	2196.6	2199.1	2203.1
20°	2174.6	2168.9	2152.7	2147.7	2151.8
22.5°	2119.3	2108.7	2099.7	2097.3	2098.1
25°	2056.6	2045.2	2034.6	2027.3	2032.9
27.5°	1983.3	1973.5	1959.7	1957.3	1962.1
30°	1900.3	1893.0	1880.8	1877.5	1884.8
32.5°	1815.6	1803.3	1786.3	1786.3	1787.9
35°	1707.3	1704.9	1687.7	1688.5	1690.2
37.5°	1609.6	1598.2	1588.4	1578.7	1583.6
40°	1501.3	1488.3	1475.3	1468.8	1466.3
42.5°	1384.9	1375.1	1369.4	1345.8	1340.1
45°	1270.1	1262.0	1253.0	1222.0	1203.4
47.5°	1152.8	1151.2	1143.9	1089.4	1070.6
50°	1043.8	1041.3	1015.2	957.4	938.7
52.5°	940.4	924.1	889.9	832.9	829.6
55°	836.2	810.1	761.2	723.8	722.2
57.5°	726.3	695.3	645.7	625.2	635.8
60°	638.3	591.1	534.1	536.5	553.7
62.5°	547.1	494.2	438.0	462.5	482.8
65°	470.6	414.4	355.0	403.0	430.7
67.5°	403.8	351.7	294.7	359.1	385.9
70°	348.5	306.1	250.8	318.3	348.5
72.5°	304.5	265.4	222.3	285.8	320.8
75°	263.8	228.8	201.9	251.6	290.7
77.5°	228.8	194.6	182.4	222.3	260.5
80°	192.1	161.2	159.6	193.8	222.3
82.5°	149.8	128.7	128.7	162.0	179.1
85°	105.9	92.8	90.4	118.1	119.7
87.5°	54.5	52.1	47.2	61.9	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)