

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: P219150

Luminaire Tested: **24GR-LD5-64-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219150
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-A125-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5218.8 lumens
Efficiency: N/A
Efficacy: 108.4 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

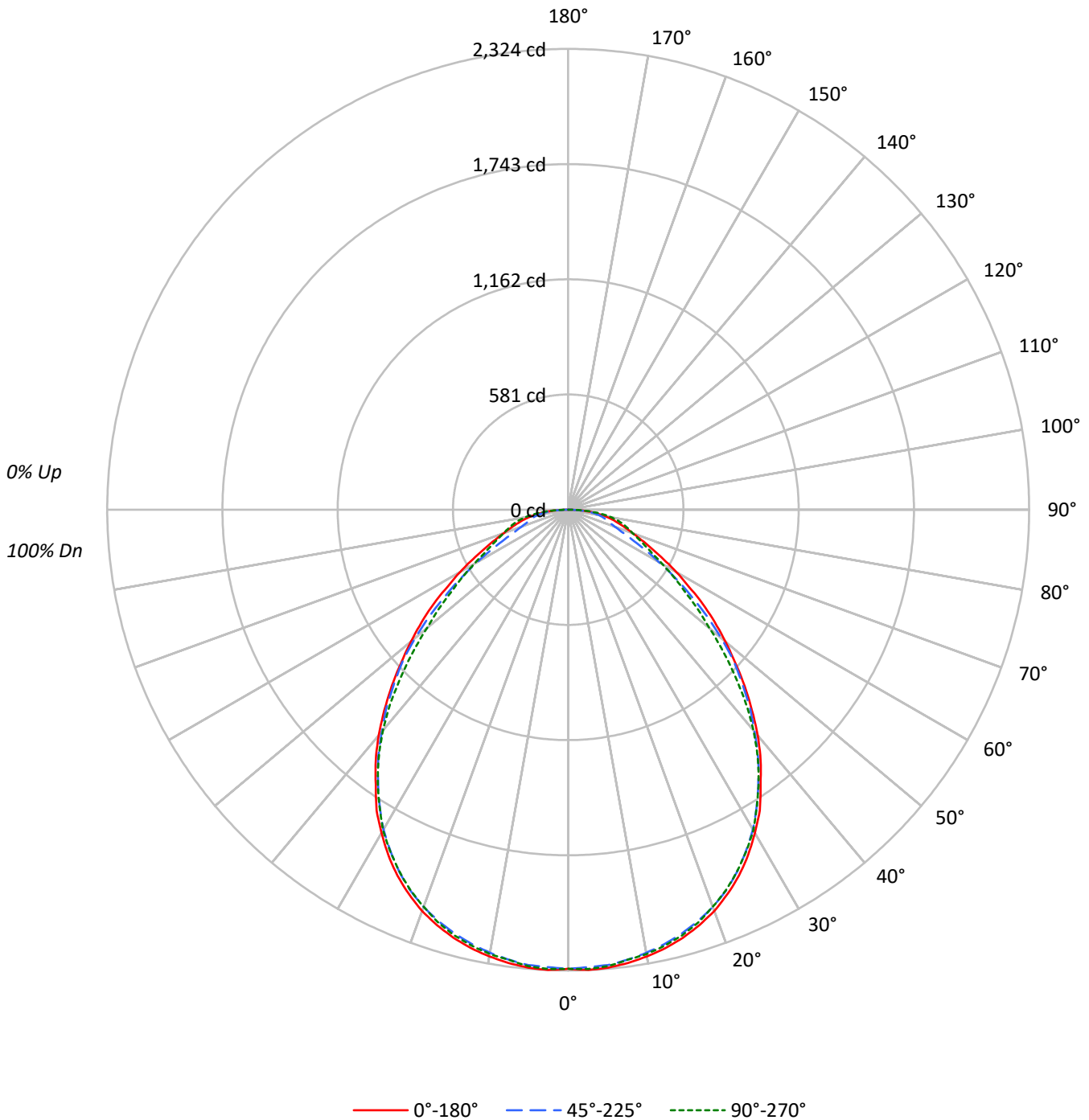
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	3546	3546	3546
5°	3564	3544	3553
10°	3557	3529	3539
15°	3544	3508	3523
20°	3510	3475	3473
25°	3442	3405	3402
30°	3328	3294	3301
35°	3161	3125	3130
40°	2972	2921	2903
45°	2724	2688	2581
50°	2463	2396	2215
55°	2211	2013	1910
60°	1936	1620	1680
65°	1689	1274	1546
70°	1545	1112	1545
75°	1546	1183	1703
80°	1678	1394	1941
85°	1842	1573	2082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	4.2
10°-20°	625.8	12.0
20°-30°	927.9	17.8
30°-40°	1046.8	20.1
40°-50°	948.0	18.2
50°-60°	684.0	13.1
60°-70°	408.4	7.8
70°-80°	252.4	4.8
80°-90°	106.3	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°	1772.9	34.0
0°-40°	2819.7	54.0
0°-60°	4451.7	85.3
0°-90°	5218.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5218.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2316	2316	2316	2316	2316	
5°	2318	2315	2305	2303	2311	220
15°	2235	2221	2212	2213	2222	630
25°	2037	2025	2015	2008	2013	936
35°	1691	1688	1671	1672	1674	1058
45°	1258	1250	1241	1210	1192	969
55°	828	802	754	717	715	739
65°	466	410	352	399	426	469
75°	261	227	200	249	288	279
85°	105	92	90	117	118	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2315.5	2315.5	2315.5	2315.5	2315.5
2.5°	2323.6	2317.2	2309.0	2313.9	2318.0
5°	2318.0	2314.7	2305.0	2302.6	2310.7
7.5°	2305.8	2297.8	2288.9	2293.0	2289.7
10°	2287.3	2280.0	2268.8	2269.6	2275.2
12.5°	2264.8	2255.8	2243.8	2247.0	2251.8
15°	2234.9	2221.2	2212.4	2213.1	2222.0
17.5°	2197.0	2186.5	2175.2	2177.7	2181.7
20°	2153.5	2147.8	2131.7	2126.8	2130.9
22.5°	2098.6	2088.1	2079.3	2076.9	2077.7
25°	2036.6	2025.2	2014.8	2007.5	2013.2
27.5°	1964.0	1954.3	1940.6	1938.2	1943.1
30°	1881.7	1874.5	1862.4	1859.2	1866.5
32.5°	1797.9	1785.8	1768.9	1768.9	1770.5
35°	1690.7	1688.3	1671.3	1672.1	1673.8
37.5°	1593.9	1582.7	1573.0	1563.3	1568.2
40°	1486.7	1473.8	1460.9	1454.4	1452.1
42.5°	1371.4	1361.8	1356.1	1332.7	1327.1
45°	1257.7	1249.7	1240.8	1210.2	1191.6
47.5°	1141.6	1140.0	1132.7	1078.7	1060.2
50°	1033.6	1031.1	1005.4	948.2	929.6
52.5°	931.2	915.1	881.3	824.8	821.6
55°	828.0	802.2	753.8	716.8	715.1
57.5°	719.1	688.6	639.4	619.2	629.7
60°	632.1	585.3	528.9	531.3	548.3
62.5°	541.8	489.4	433.8	458.0	478.1
65°	466.0	410.4	351.5	399.1	426.5
67.5°	399.9	348.3	291.8	355.6	382.1
70°	345.1	303.2	248.3	315.2	345.1
72.5°	301.5	262.8	220.1	283.0	317.7
75°	261.3	226.6	199.9	249.1	287.8
77.5°	226.6	192.7	180.6	220.1	258.0
80°	190.2	159.7	158.0	191.9	220.1
82.5°	148.3	127.3	127.3	160.5	177.4
85°	104.8	91.9	89.5	116.9	118.5
87.5°	54.0	51.6	46.7	61.3	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)