

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: P219180

Luminaire Tested: **24GR-LD5-64-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219180
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-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5662.1 lumens
Efficiency: N/A
Efficacy: 117.6 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

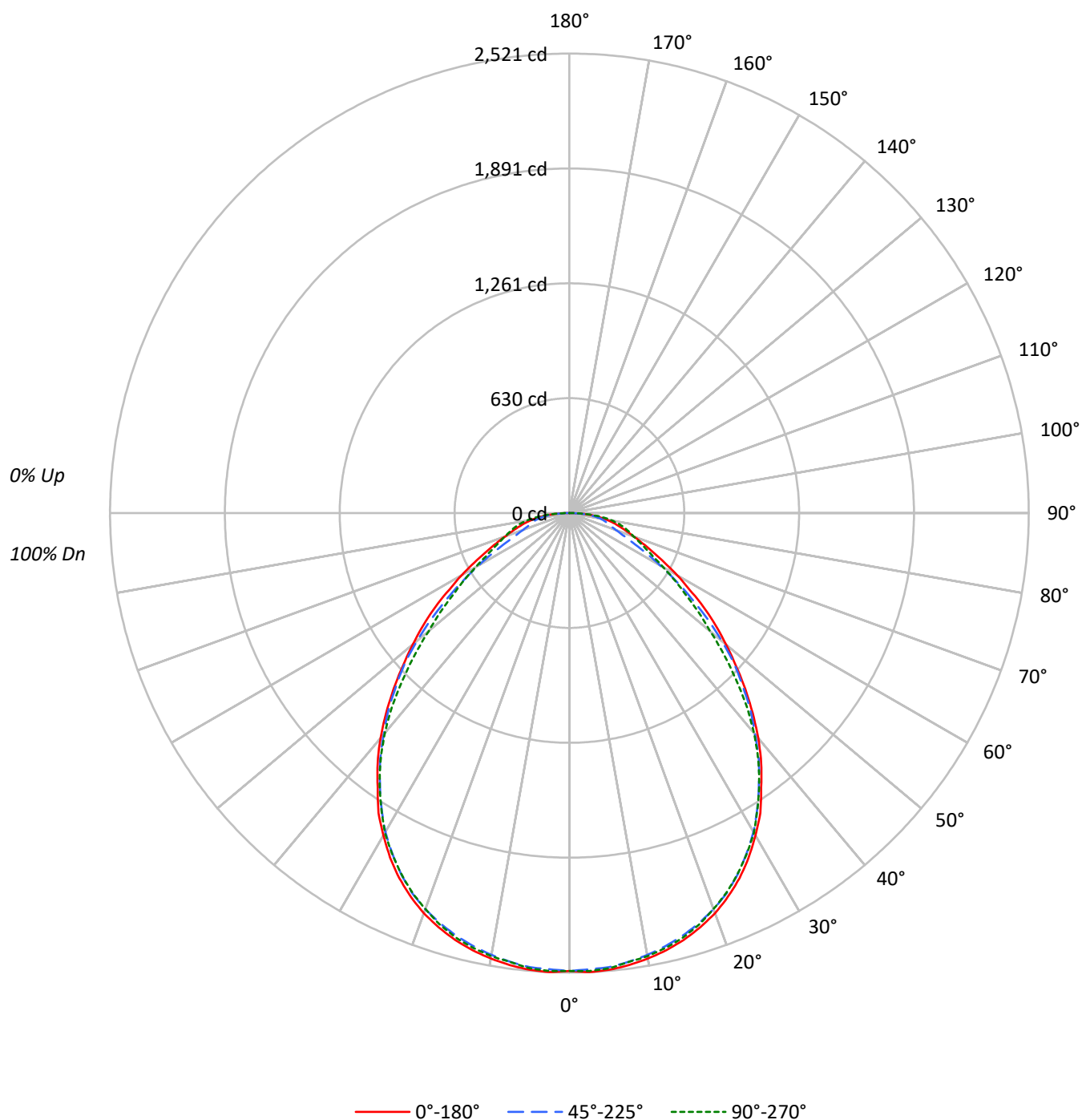
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3848	3848	3848
5°	3866	3845	3854
10°	3860	3828	3839
15°	3845	3806	3823
20°	3808	3770	3768
25°	3734	3694	3691
30°	3611	3574	3581
35°	3430	3390	3395
40°	3225	3169	3150
45°	2956	2916	2800
50°	2672	2599	2403
55°	2399	2184	2072
60°	2101	1758	1822
65°	1832	1382	1677
70°	1677	1206	1677
75°	1677	1284	1848
80°	1821	1513	2106
85°	1998	1706	2260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	4.2
10°-20°	678.9	12.0
20°-30°	1006.7	17.8
30°-40°	1135.7	20.1
40°-50°	1028.6	18.2
50°-60°	742.1	13.1
60°-70°	443.1	7.8
70°-80°	273.8	4.8
80°-90°	115.4	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°	1923.5	34.0
0°-40°	3059.2	54.0
0°-60°	4829.8	85.3
0°-90°	5662.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5662.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2515	2511	2501	2498	2507	239
15°	2425	2410	2400	2401	2411	684
25°	2210	2197	2186	2178	2184	1015
35°	1834	1832	1813	1814	1816	1148
45°	1365	1356	1346	1313	1293	1052
55°	898	870	818	778	776	802
65°	506	445	381	433	463	509
75°	283	246	217	270	312	303
85°	114	100	97	127	129	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.2	2512.2	2512.2	2512.2	2512.2
2.5°	2520.9	2514.0	2505.2	2510.4	2514.8
5°	2514.8	2511.4	2500.9	2498.2	2507.0
7.5°	2501.7	2493.0	2483.3	2487.7	2484.2
10°	2481.6	2473.7	2461.5	2462.4	2468.5
12.5°	2457.1	2447.5	2434.4	2437.8	2443.1
15°	2424.8	2409.9	2400.3	2401.1	2410.8
17.5°	2383.7	2372.2	2360.0	2362.7	2367.0
20°	2336.4	2330.3	2312.8	2307.6	2311.9
22.5°	2276.9	2265.5	2256.0	2253.3	2254.1
25°	2209.6	2197.3	2185.9	2178.0	2184.2
27.5°	2130.8	2120.3	2105.5	2102.9	2108.1
30°	2041.6	2033.7	2020.7	2017.1	2025.0
32.5°	1950.7	1937.5	1919.2	1919.2	1920.9
35°	1834.3	1831.7	1813.3	1814.2	1815.9
37.5°	1729.4	1717.1	1706.6	1696.1	1701.3
40°	1613.0	1599.0	1585.0	1578.0	1575.3
42.5°	1487.9	1477.4	1471.3	1445.9	1439.8
45°	1364.6	1355.8	1346.2	1313.0	1292.8
47.5°	1238.6	1236.9	1229.0	1170.4	1150.2
50°	1121.4	1118.8	1090.8	1028.6	1008.5
52.5°	1010.3	992.8	956.1	894.8	891.3
55°	898.4	870.3	817.9	777.6	775.9
57.5°	780.3	747.0	693.7	671.8	683.2
60°	685.8	635.0	573.8	576.5	594.8
62.5°	587.8	531.0	470.6	496.8	518.8
65°	505.6	445.2	381.4	433.0	462.8
67.5°	433.9	377.9	316.7	385.8	414.6
70°	374.4	328.9	269.4	342.0	374.4
72.5°	327.1	285.2	238.8	307.0	344.6
75°	283.4	245.8	216.9	270.3	312.3
77.5°	245.8	209.1	195.9	238.8	279.9
80°	206.4	173.2	171.5	208.2	238.8
82.5°	161.0	138.2	138.2	174.1	192.5
85°	113.7	99.8	97.1	126.8	128.6
87.5°	58.6	56.0	50.7	66.5	66.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)