

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: P219046

Luminaire Tested: **24GR-LD5-72-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219046
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-LD5-72-F1-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6168.4 lumens
Efficiency: N/A
Efficacy: 110.0 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

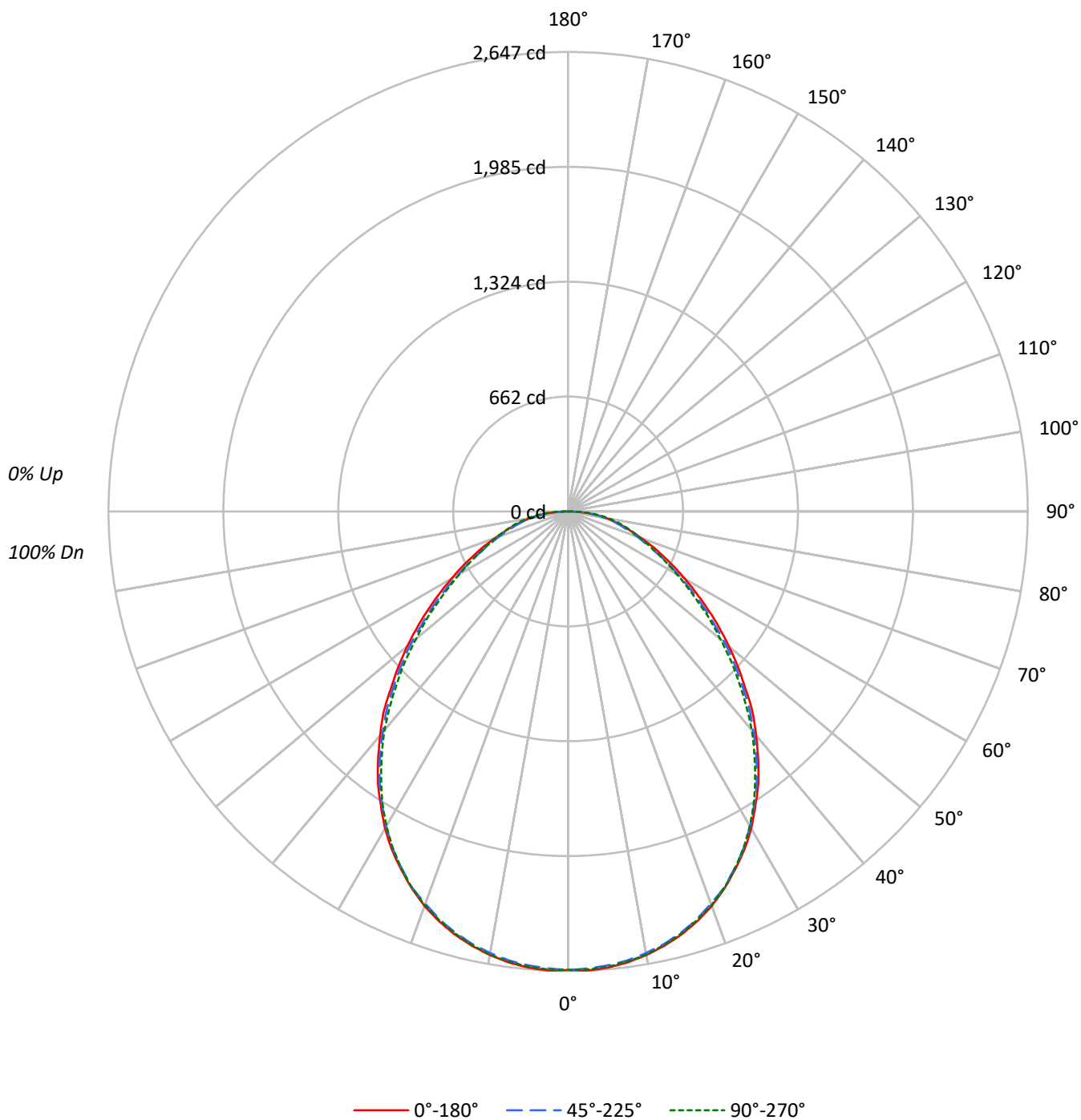
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4045	4045	4045
5°	4055	4036	4047
10°	4035	4017	4032
15°	4001	3983	3992
20°	3942	3919	3934
25°	3846	3833	3837
30°	3729	3707	3700
35°	3571	3542	3510
40°	3366	3322	3290
45°	3127	3071	3014
50°	2882	2808	2724
55°	2621	2529	2451
60°	2374	2249	2208
65°	2172	2027	2040
70°	1998	1882	1972
75°	1942	1840	2009
80°	1947	1896	2139
85°	2139	2023	2357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	4.0
10°-20°	708.2	11.5
20°-30°	1043.5	16.9
30°-40°	1180.1	19.1
40°-50°	1094.6	17.7
50°-60°	850.4	13.8
60°-70°	570.3	9.2
70°-80°	341.8	5.5
80°-90°	130.0	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°	2001.2	32.4
0°-40°	3181.3	51.6
0°-60°	5126.4	83.1
0°-90°	6168.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6168.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2637	2630	2625	2623	2632	250
15°	2523	2513	2512	2507	2517	711
25°	2276	2273	2268	2264	2270	1047
35°	1910	1902	1894	1883	1877	1190
45°	1444	1438	1418	1396	1391	1116
55°	982	970	947	923	918	881
65°	599	580	559	557	563	598
75°	328	317	311	326	340	347
85°	122	114	115	135	134	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2641.0	2641.0	2641.0	2641.0	2641.0
2.5°	2646.7	2638.2	2634.4	2632.5	2641.0
5°	2637.2	2629.6	2624.9	2623.0	2632.5
7.5°	2620.1	2611.5	2608.7	2604.9	2614.4
10°	2594.5	2586.8	2583.1	2580.2	2592.6
12.5°	2562.2	2555.4	2551.6	2549.7	2557.4
15°	2523.1	2512.7	2511.8	2507.0	2517.4
17.5°	2474.6	2465.1	2463.2	2461.3	2468.0
20°	2418.5	2409.0	2404.2	2403.3	2413.7
22.5°	2351.0	2344.3	2346.3	2340.6	2348.1
25°	2275.9	2273.0	2268.2	2264.4	2270.2
27.5°	2197.8	2188.3	2188.3	2180.8	2186.5
30°	2108.5	2101.8	2096.1	2088.5	2092.3
32.5°	2007.6	2004.8	1996.2	1988.7	1990.5
35°	1909.7	1902.1	1894.5	1883.1	1877.4
37.5°	1797.5	1789.8	1780.3	1764.2	1762.3
40°	1683.3	1676.7	1661.5	1644.3	1645.3
42.5°	1575.0	1564.5	1545.5	1522.6	1517.8
45°	1443.7	1437.9	1418.0	1396.1	1391.4
47.5°	1326.7	1322.9	1298.2	1275.3	1269.6
50°	1209.7	1199.3	1178.4	1155.5	1143.2
52.5°	1094.6	1081.4	1054.7	1039.5	1033.8
55°	981.5	970.1	947.2	923.4	917.7
57.5°	875.9	863.5	836.0	818.9	816.0
60°	775.1	763.7	734.2	721.8	720.9
62.5°	685.7	666.7	646.7	638.2	639.1
65°	599.2	580.1	559.2	557.3	563.0
67.5°	523.1	503.1	482.2	489.8	495.5
70°	446.1	431.8	420.3	432.7	440.3
72.5°	380.5	371.9	361.4	378.5	388.0
75°	328.1	316.7	311.0	326.2	339.5
77.5°	272.0	262.5	262.5	278.6	292.9
80°	220.7	213.9	215.0	233.9	242.5
82.5°	173.1	163.5	164.6	188.3	194.1
85°	121.7	114.2	115.1	135.1	134.1
87.5°	63.8	60.9	63.8	77.9	74.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)