

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: P219192

Luminaire Tested: **24GR-LD5-42-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219192
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-LD5-42-A125-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3981.2 lumens
Efficiency: N/A
Efficacy: 115.0 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

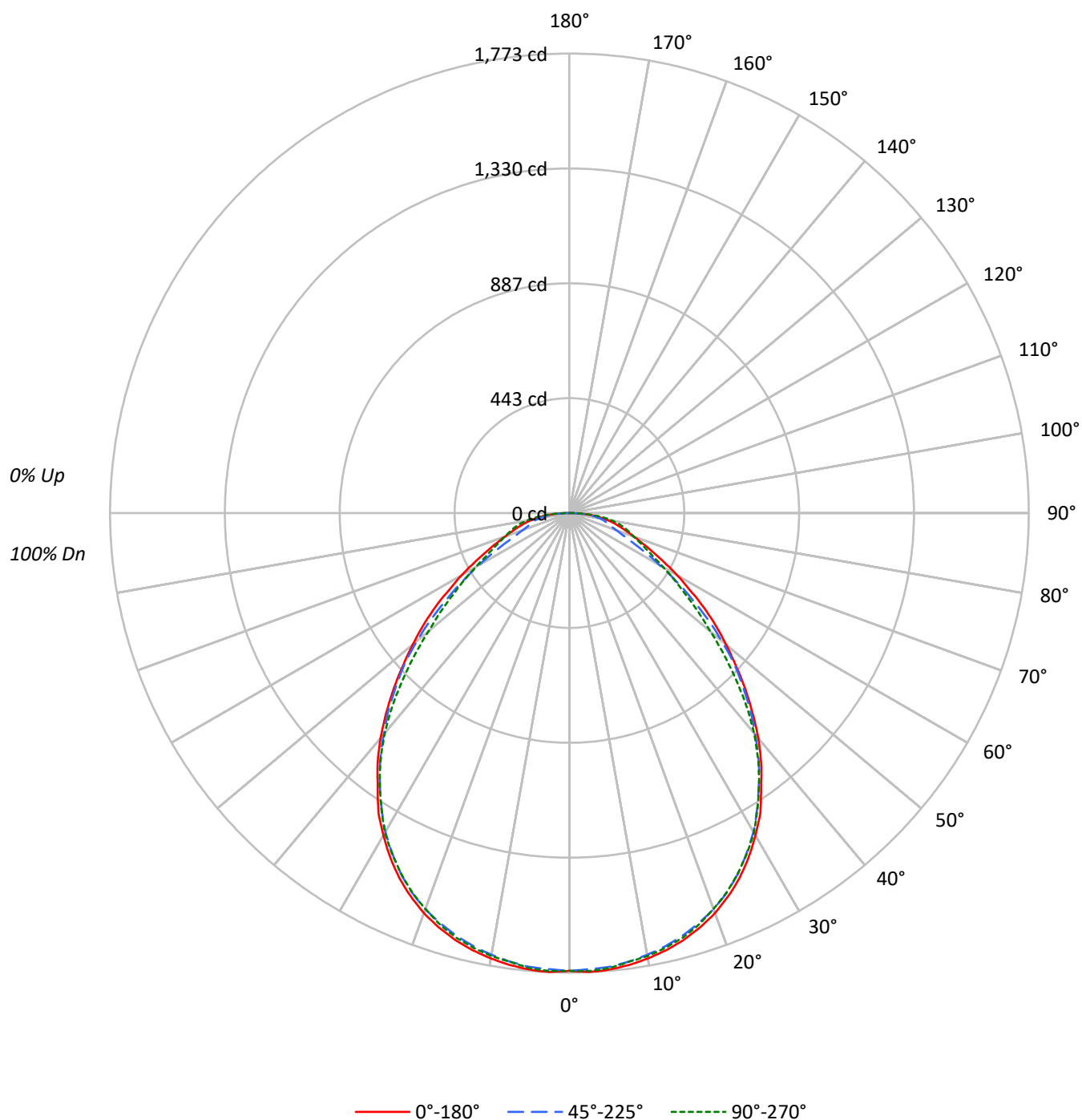
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2705	2705	2705
5°	2719	2703	2710
10°	2714	2692	2699
15°	2703	2676	2688
20°	2678	2651	2649
25°	2626	2597	2595
30°	2539	2513	2518
35°	2411	2384	2387
40°	2268	2228	2215
45°	2078	2050	1969
50°	1879	1827	1690
55°	1687	1535	1457
60°	1477	1236	1281
65°	1288	972	1179
70°	1179	849	1179
75°	1179	902	1300
80°	1280	1064	1481
85°	1406	1199	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	4.2
10°-20°	477.4	12.0
20°-30°	707.8	17.8
30°-40°	798.5	20.1
40°-50°	723.2	18.2
50°-60°	521.8	13.1
60°-70°	311.5	7.8
70°-80°	192.5	4.8
80°-90°	81.1	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°	1352.5	34.0
0°-40°	2151.0	54.0
0°-60°	3396.0	85.3
0°-90°	3981.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3981.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1768	1766	1758	1757	1763	168
15°	1705	1694	1688	1688	1695	481
25°	1554	1545	1537	1531	1536	714
35°	1290	1288	1275	1276	1277	807
45°	960	953	947	923	909	739
55°	632	612	575	547	546	564
65°	356	313	268	304	325	358
75°	199	173	152	190	220	213
85°	80	70	68	89	90	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.4	1766.4	1766.4	1766.4	1766.4
2.5°	1772.6	1767.7	1761.5	1765.2	1768.3
5°	1768.3	1765.8	1758.4	1756.6	1762.8
7.5°	1759.0	1752.9	1746.1	1749.2	1746.7
10°	1744.9	1739.4	1730.7	1731.4	1735.6
12.5°	1727.6	1720.9	1711.7	1714.2	1717.8
15°	1704.9	1694.4	1687.7	1688.3	1695.1
17.5°	1676.0	1668.0	1659.4	1661.2	1664.3
20°	1642.8	1638.5	1626.2	1622.5	1625.5
22.5°	1601.0	1593.0	1586.2	1584.4	1584.9
25°	1553.6	1545.0	1537.0	1531.4	1535.8
27.5°	1498.2	1490.9	1480.4	1478.6	1482.3
30°	1435.5	1430.0	1420.8	1418.3	1423.9
32.5°	1371.6	1362.4	1349.4	1349.4	1350.6
35°	1289.7	1287.9	1275.0	1275.6	1276.8
37.5°	1215.9	1207.3	1199.9	1192.6	1196.3
40°	1134.1	1124.3	1114.5	1109.6	1107.7
42.5°	1046.2	1038.9	1034.5	1016.7	1012.4
45°	959.5	953.3	946.6	923.2	909.0
47.5°	870.9	869.7	864.1	822.9	808.8
50°	788.5	786.6	766.9	723.3	709.2
52.5°	710.3	698.1	672.2	629.2	626.7
55°	631.6	612.0	575.0	546.8	545.5
57.5°	548.6	525.3	487.8	472.4	480.4
60°	482.2	446.5	403.5	405.3	418.2
62.5°	413.3	373.4	330.9	349.3	364.7
65°	355.5	313.0	268.2	304.5	325.3
67.5°	305.0	265.7	222.7	271.3	291.6
70°	263.3	231.2	189.5	240.5	263.3
72.5°	230.0	200.5	167.9	215.9	242.3
75°	199.3	172.8	152.5	190.0	219.6
77.5°	172.8	147.0	137.8	167.9	196.8
80°	145.1	121.8	120.6	146.4	167.9
82.5°	113.2	97.2	97.2	122.4	135.3
85°	80.0	70.2	68.2	89.2	90.5
87.5°	41.2	39.4	35.7	46.8	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)