

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: P219162

Luminaire Tested: **24GR-LD5-42-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219162
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-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3656.8 lumens
Efficiency: N/A
Efficacy: 105.6 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

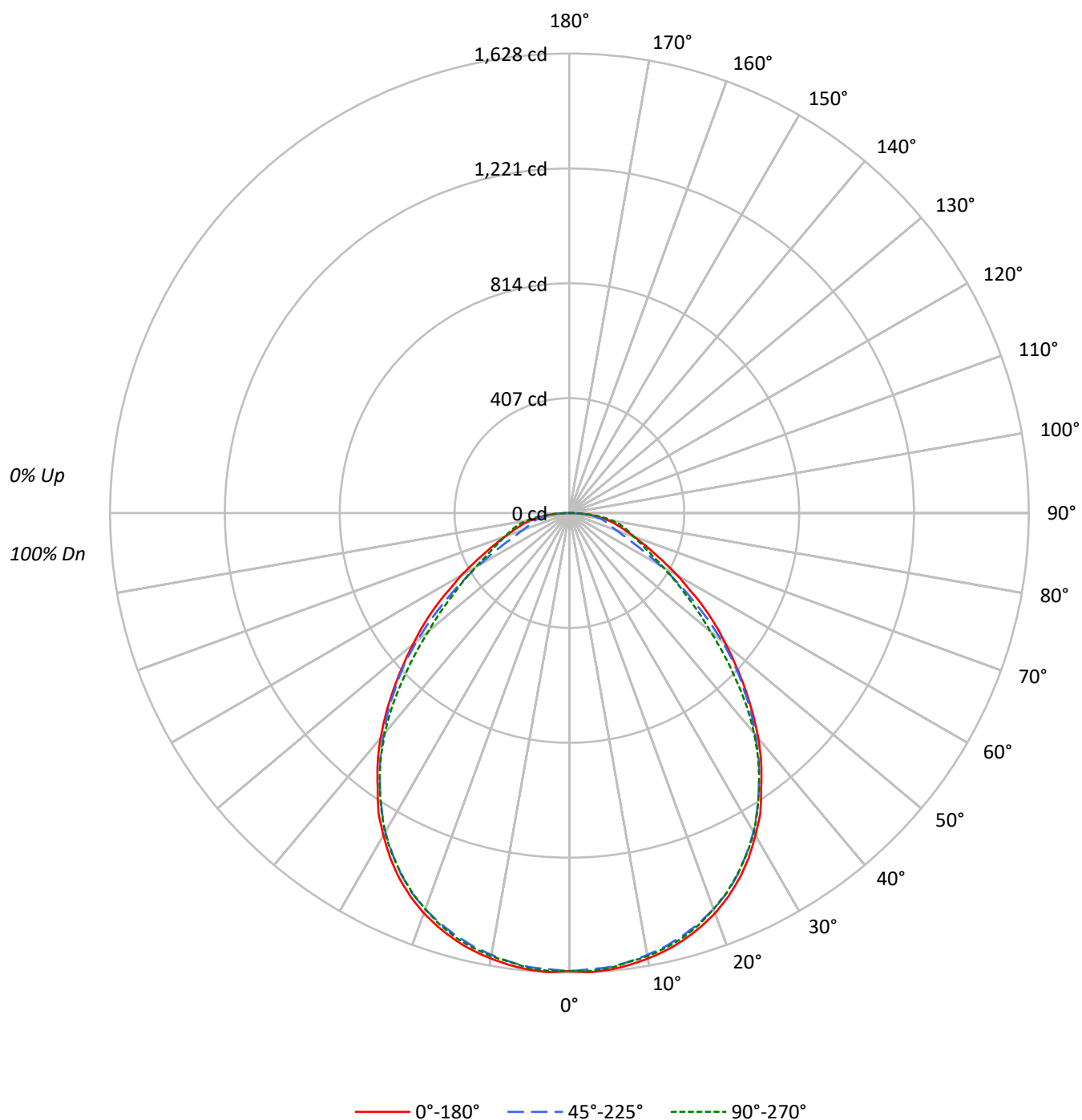
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2485	2485	2485
5°	2497	2483	2489
10°	2493	2472	2479
15°	2483	2458	2469
20°	2459	2434	2434
25°	2412	2386	2384
30°	2332	2308	2313
35°	2215	2189	2193
40°	2083	2047	2034
45°	1909	1883	1809
50°	1726	1679	1552
55°	1549	1410	1338
60°	1357	1135	1177
65°	1183	893	1083
70°	1083	779	1083
75°	1083	829	1194
80°	1176	977	1360
85°	1290	1102	1459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	4.2
10°-20°	438.5	12.0
20°-30°	650.1	17.8
30°-40°	733.4	20.1
40°-50°	664.3	18.2
50°-60°	479.2	13.1
60°-70°	286.2	7.8
70°-80°	176.9	4.8
80°-90°	74.5	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°	1242.3	34.0
0°-40°	1975.7	54.0
0°-60°	3119.2	85.3
0°-90°	3656.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1624	1622	1615	1613	1619	154
15°	1566	1556	1550	1551	1557	441
25°	1427	1419	1412	1407	1411	656
35°	1185	1183	1171	1172	1173	741
45°	881	876	869	848	835	679
55°	580	562	528	502	501	518
65°	326	288	246	280	299	328
75°	183	159	140	175	202	195
85°	73	64	63	82	83	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.5	1622.5	1622.5	1622.5	1622.5
2.5°	1628.1	1623.6	1618.0	1621.3	1624.2
5°	1624.2	1621.9	1615.1	1613.4	1619.1
7.5°	1615.7	1610.0	1603.8	1606.7	1604.4
10°	1602.7	1597.6	1589.7	1590.3	1594.2
12.5°	1586.9	1580.7	1572.2	1574.5	1577.9
15°	1566.0	1556.4	1550.1	1550.7	1556.9
17.5°	1539.4	1532.0	1524.1	1525.8	1528.6
20°	1508.9	1504.9	1493.6	1490.3	1493.1
22.5°	1470.5	1463.2	1456.9	1455.2	1455.8
25°	1427.0	1419.1	1411.8	1406.7	1410.6
27.5°	1376.1	1369.4	1359.7	1358.0	1361.4
30°	1318.5	1313.4	1305.0	1302.7	1307.8
32.5°	1259.8	1251.3	1239.5	1239.5	1240.6
35°	1184.6	1182.9	1171.0	1171.6	1172.7
37.5°	1116.8	1108.9	1102.2	1095.4	1098.8
40°	1041.7	1032.7	1023.7	1019.2	1017.4
42.5°	960.9	954.1	950.2	933.8	929.9
45°	881.3	875.7	869.4	848.0	835.0
47.5°	799.9	798.8	793.7	755.9	742.9
50°	724.2	722.5	704.5	664.4	651.4
52.5°	652.5	641.2	617.4	577.9	575.6
55°	580.2	562.1	528.2	502.2	501.1
57.5°	503.9	482.5	448.0	433.8	441.2
60°	442.9	410.1	370.6	372.3	384.1
62.5°	379.6	342.9	304.0	320.9	335.0
65°	326.5	287.6	246.3	279.6	298.9
67.5°	280.2	244.0	204.5	249.1	267.8
70°	241.8	212.4	174.0	220.9	241.8
72.5°	211.3	184.2	154.2	198.3	222.6
75°	183.0	158.8	140.1	174.6	201.7
77.5°	158.8	135.0	126.6	154.2	180.8
80°	133.3	111.9	110.8	134.5	154.2
82.5°	104.0	89.2	89.2	112.5	124.3
85°	73.4	64.4	62.7	81.9	83.0
87.5°	37.8	36.1	32.7	42.9	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)