

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: P219161

Luminaire Tested: **24GR-LD5-38-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219161
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-LD5-38-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: 3304.2 lumens
Efficiency: N/A
Efficacy: 107.9 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

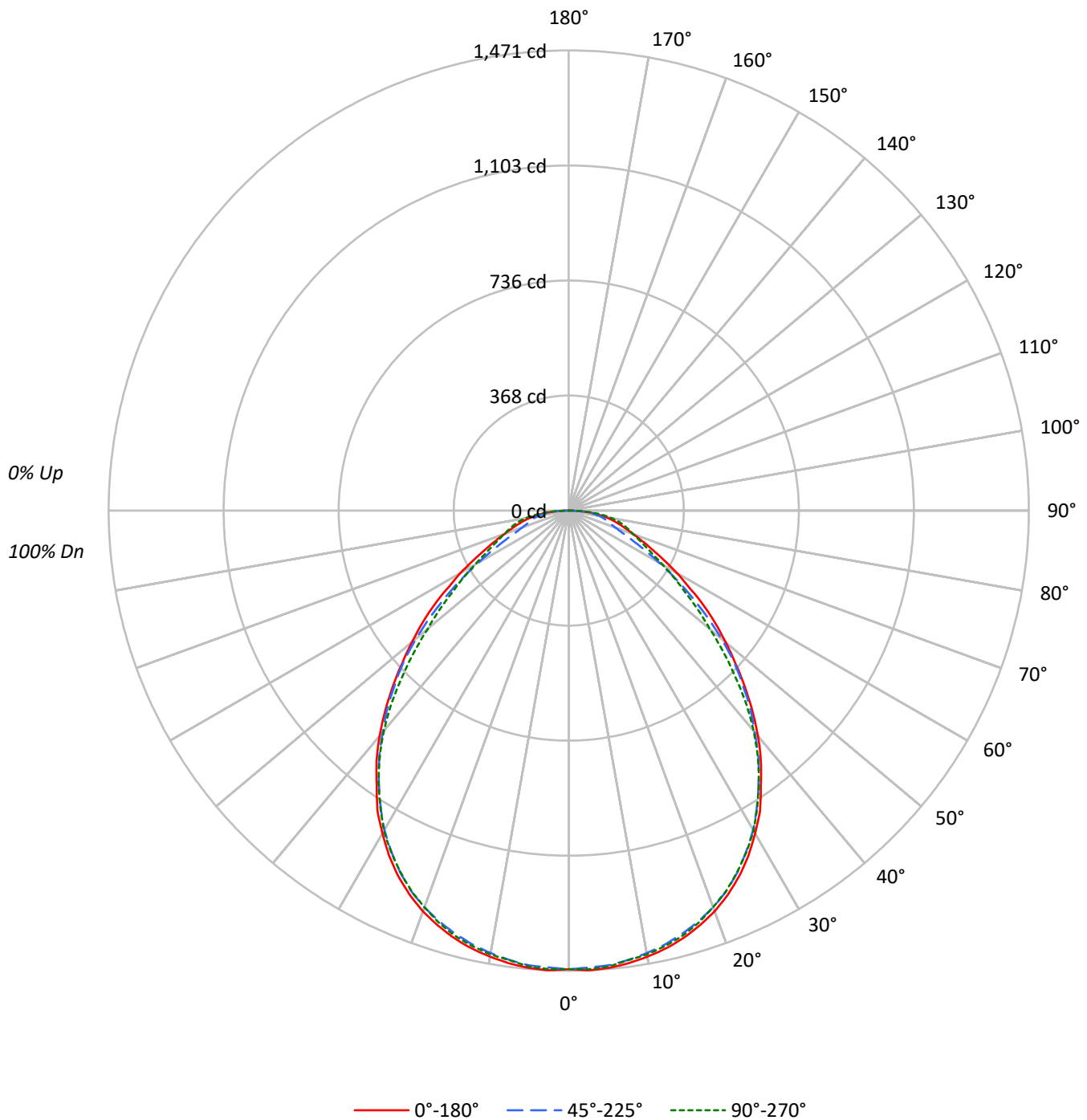
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2245	2245	2245
5°	2256	2244	2249
10°	2252	2234	2240
15°	2244	2221	2231
20°	2222	2200	2199
25°	2179	2156	2154
30°	2107	2085	2090
35°	2001	1979	1981
40°	1882	1849	1838
45°	1725	1702	1634
50°	1559	1517	1402
55°	1400	1275	1209
60°	1226	1026	1063
65°	1069	806	979
70°	978	704	978
75°	979	749	1078
80°	1062	882	1229
85°	1167	996	1320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	4.2
10°-20°	396.2	12.0
20°-30°	587.5	17.8
30°-40°	662.7	20.1
40°-50°	600.3	18.2
50°-60°	433.0	13.1
60°-70°	258.5	7.8
70°-80°	159.8	4.8
80°-90°	67.3	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°	1122.5	34.0
0°-40°	1785.2	54.0
0°-60°	2818.5	85.3
0°-90°	3304.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1468	1466	1459	1458	1463	139
15°	1415	1406	1401	1401	1407	399
25°	1289	1282	1276	1271	1275	592
35°	1070	1069	1058	1059	1060	670
45°	796	791	786	766	754	614
55°	524	508	477	454	453	468
65°	295	260	222	253	270	297
75°	165	144	127	158	182	177
85°	66	58	57	74	75	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466.0	1466.0	1466.0	1466.0	1466.0
2.5°	1471.1	1467.0	1461.9	1465.0	1467.5
5°	1467.5	1465.5	1459.4	1457.8	1462.9
7.5°	1459.9	1454.8	1449.2	1451.7	1449.7
10°	1448.1	1443.6	1436.4	1436.9	1440.5
12.5°	1433.9	1428.3	1420.6	1422.6	1425.7
15°	1415.0	1406.3	1400.7	1401.2	1406.8
17.5°	1391.0	1384.4	1377.2	1378.7	1381.3
20°	1363.4	1359.8	1349.6	1346.6	1349.1
22.5°	1328.7	1322.1	1316.5	1315.0	1315.5
25°	1289.4	1282.2	1275.6	1271.0	1274.6
27.5°	1243.5	1237.3	1228.7	1227.1	1230.2
30°	1191.4	1186.8	1179.1	1177.1	1181.7
32.5°	1138.3	1130.7	1120.0	1120.0	1121.0
35°	1070.4	1068.9	1058.2	1058.7	1059.7
37.5°	1009.2	1002.1	995.9	989.7	992.8
40°	941.3	933.1	925.0	920.9	919.4
42.5°	868.3	862.2	858.6	843.8	840.2
45°	796.3	791.2	785.6	766.2	754.5
47.5°	722.8	721.8	717.2	683.0	671.2
50°	654.4	652.9	636.6	600.3	588.5
52.5°	589.6	579.4	557.9	522.2	520.1
55°	524.3	507.9	477.3	453.8	452.8
57.5°	455.3	436.0	404.8	392.0	398.6
60°	400.2	370.6	334.9	336.4	347.1
62.5°	343.1	309.8	274.6	289.9	302.7
65°	295.0	259.8	222.5	252.7	270.0
67.5°	253.2	220.5	184.8	225.1	242.0
70°	218.4	191.9	157.2	199.6	218.4
72.5°	190.9	166.4	139.3	179.2	201.1
75°	165.4	143.5	126.6	157.8	182.2
77.5°	143.5	122.0	114.3	139.3	163.4
80°	120.4	101.1	100.0	121.5	139.3
82.5°	93.9	80.7	80.7	101.6	112.3
85°	66.4	58.2	56.7	74.0	75.1
87.5°	34.2	32.6	29.6	38.8	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)