

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: P219101

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219101
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-A-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3336.7 lumens
Efficiency: N/A
Efficacy: 109.0 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

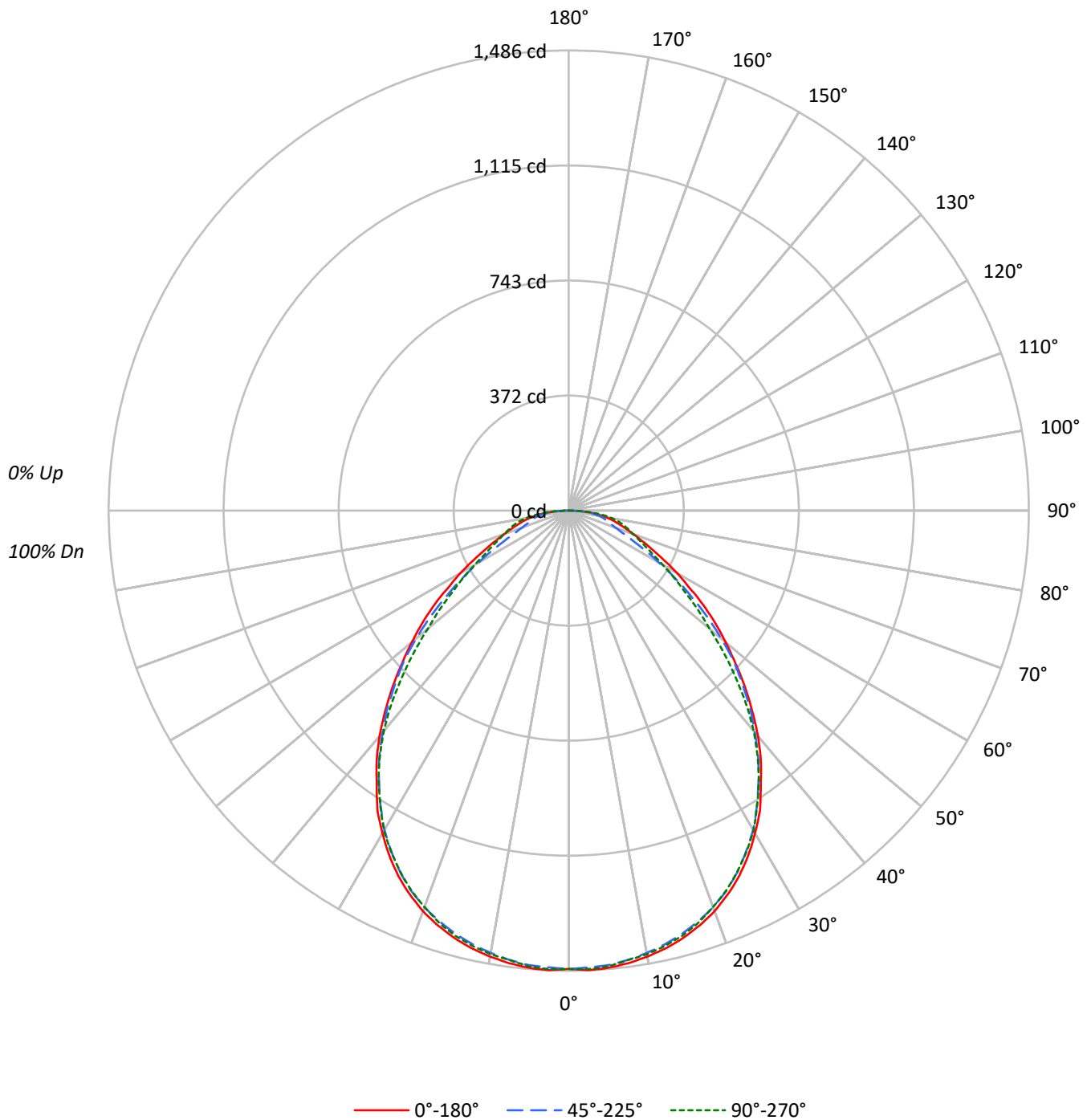
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2267	2267	2267
5°	2279	2266	2271
10°	2274	2256	2262
15°	2266	2243	2253
20°	2244	2221	2221
25°	2200	2177	2175
30°	2128	2106	2110
35°	2021	1998	2001
40°	1901	1868	1856
45°	1742	1718	1650
50°	1575	1532	1416
55°	1414	1287	1221
60°	1238	1036	1074
65°	1080	814	988
70°	988	711	988
75°	988	756	1089
80°	1073	892	1242
85°	1177	1005	1330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	4.2
10°-20°	400.1	12.0
20°-30°	593.2	17.8
30°-40°	669.2	20.1
40°-50°	606.1	18.2
50°-60°	437.3	13.1
60°-70°	261.1	7.8
70°-80°	161.4	4.8
80°-90°	68.0	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°	1133.5	34.0
0°-40°	1802.8	54.0
0°-60°	2846.2	85.3
0°-90°	3336.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3336.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1482	1480	1474	1472	1477	141
15°	1429	1420	1414	1415	1421	403
25°	1302	1295	1288	1284	1287	598
35°	1081	1079	1068	1069	1070	676
45°	804	799	793	774	762	620
55°	529	513	482	458	457	473
65°	298	262	225	255	273	300
75°	167	145	128	159	184	178
85°	67	59	57	75	76	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1480.4	1480.4	1480.4	1480.4	1480.4
2.5°	1485.6	1481.5	1476.3	1479.4	1482.0
5°	1482.0	1479.9	1473.7	1472.2	1477.4
7.5°	1474.2	1469.1	1463.4	1466.0	1464.0
10°	1462.4	1457.8	1450.5	1451.0	1454.7
12.5°	1448.0	1442.3	1434.5	1436.6	1439.7
15°	1428.8	1420.1	1414.5	1415.0	1420.6
17.5°	1404.6	1398.0	1390.8	1392.3	1394.8
20°	1376.8	1373.3	1362.9	1359.8	1362.4
22.5°	1341.8	1335.1	1329.4	1327.9	1328.4
25°	1302.1	1294.9	1288.2	1283.5	1287.2
27.5°	1255.7	1249.5	1240.7	1239.2	1242.3
30°	1203.1	1198.5	1190.8	1188.6	1193.3
32.5°	1149.5	1141.8	1130.9	1130.9	1131.9
35°	1080.9	1079.4	1068.5	1069.1	1070.1
37.5°	1019.1	1011.8	1005.7	999.5	1002.6
40°	950.6	942.3	934.1	929.9	928.4
42.5°	876.9	870.7	867.0	852.0	848.5
45°	804.1	799.0	793.3	773.8	761.9
47.5°	729.9	728.9	724.2	689.7	677.9
50°	660.9	659.3	642.8	606.2	594.3
52.5°	595.3	585.1	563.4	527.3	525.3
55°	529.4	512.9	482.0	458.2	457.2
57.5°	459.8	440.2	408.8	395.8	402.6
60°	404.1	374.3	338.1	339.7	350.5
62.5°	346.4	312.9	277.4	292.8	305.7
65°	297.9	262.4	224.7	255.2	272.7
67.5°	255.7	222.7	186.6	227.3	244.4
70°	220.7	193.8	158.8	201.5	220.7
72.5°	192.8	168.0	140.8	181.0	203.1
75°	167.0	144.8	127.8	159.3	184.0
77.5°	144.8	123.2	115.4	140.8	165.0
80°	121.6	102.1	101.1	122.7	140.8
82.5°	94.9	81.4	81.4	102.6	113.4
85°	67.0	58.7	57.2	74.7	75.7
87.5°	34.5	33.0	29.9	39.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)