

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: P219131

Luminaire Tested: **24GR-LD5-38-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219131
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-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3632.7 lumens
Efficiency: N/A
Efficacy: 118.6 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

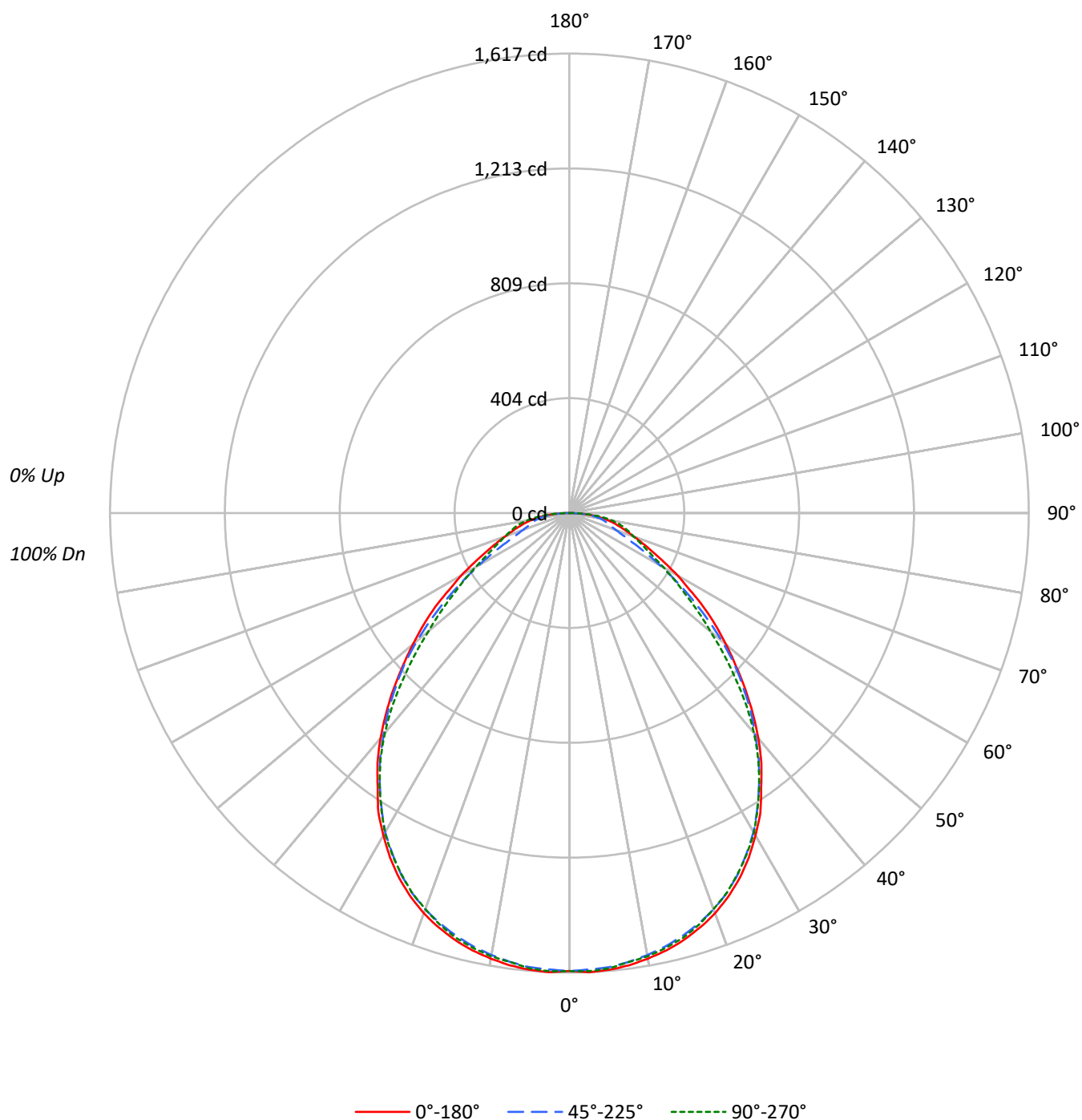
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2469	2469	2469
5°	2481	2467	2473
10°	2476	2456	2463
15°	2467	2442	2453
20°	2443	2418	2418
25°	2396	2370	2368
30°	2317	2293	2298
35°	2201	2175	2178
40°	2069	2033	2021
45°	1896	1871	1797
50°	1714	1667	1542
55°	1539	1401	1329
60°	1348	1128	1169
65°	1176	887	1076
70°	1076	774	1076
75°	1076	823	1186
80°	1168	970	1351
85°	1283	1095	1450



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	4.2
10°-20°	435.6	12.0
20°-30°	645.9	17.8
30°-40°	728.6	20.1
40°-50°	659.9	18.2
50°-60°	476.1	13.1
60°-70°	284.3	7.8
70°-80°	175.7	4.8
80°-90°	74.0	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°	1234.1	34.0
0°-40°	1962.7	54.0
0°-60°	3098.8	85.3
0°-90°	3632.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1614	1611	1604	1603	1608	153
15°	1556	1546	1540	1540	1547	439
25°	1418	1410	1402	1397	1401	651
35°	1177	1175	1163	1164	1165	736
45°	876	870	864	842	830	675
55°	576	558	525	499	498	515
65°	324	286	245	278	297	326
75°	182	158	139	173	200	194
85°	73	64	62	81	82	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.8	1611.8	1611.8	1611.8	1611.8
2.5°	1617.4	1612.9	1607.3	1610.7	1613.5
5°	1613.5	1611.2	1604.5	1602.8	1608.4
7.5°	1605.1	1599.4	1593.3	1596.0	1593.9
10°	1592.1	1587.1	1579.2	1579.9	1583.8
12.5°	1576.5	1570.3	1561.8	1564.1	1567.5
15°	1555.6	1546.2	1540.0	1540.5	1546.7
17.5°	1529.3	1522.0	1514.1	1515.9	1518.6
20°	1499.0	1495.0	1483.8	1480.5	1483.3
22.5°	1460.8	1453.5	1447.4	1445.7	1446.3
25°	1417.6	1409.8	1402.5	1397.4	1401.3
27.5°	1367.1	1360.4	1350.8	1349.2	1352.5
30°	1309.9	1304.8	1296.4	1294.1	1299.2
32.5°	1251.5	1243.1	1231.3	1231.3	1232.4
35°	1176.9	1175.2	1163.4	1164.0	1165.1
37.5°	1109.5	1101.6	1094.9	1088.2	1091.5
40°	1034.9	1025.9	1016.9	1012.5	1010.7
42.5°	954.6	947.9	943.9	927.7	923.7
45°	875.5	869.9	863.7	842.4	829.5
47.5°	794.7	793.5	788.5	750.9	738.0
50°	719.4	717.8	699.8	660.0	647.1
52.5°	648.2	637.0	613.4	574.1	571.8
55°	576.4	558.4	524.7	499.0	497.8
57.5°	500.6	479.3	445.1	431.0	438.3
60°	440.0	407.4	368.2	369.8	381.7
62.5°	377.1	340.6	301.9	318.8	332.8
65°	324.4	285.6	244.7	277.8	296.8
67.5°	278.4	242.4	203.2	247.5	266.0
70°	240.2	211.0	172.8	219.4	240.2
72.5°	209.9	182.9	153.2	197.0	221.1
75°	181.8	157.7	139.1	173.4	200.4
77.5°	157.7	134.1	125.7	153.2	179.5
80°	132.4	111.1	110.0	133.6	153.2
82.5°	103.3	88.6	88.6	111.7	123.5
85°	73.0	64.0	62.3	81.4	82.5
87.5°	37.6	35.9	32.6	42.7	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)