

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: P475718

Luminaire Tested: **24GR-LD5-38-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475718
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3698.7 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

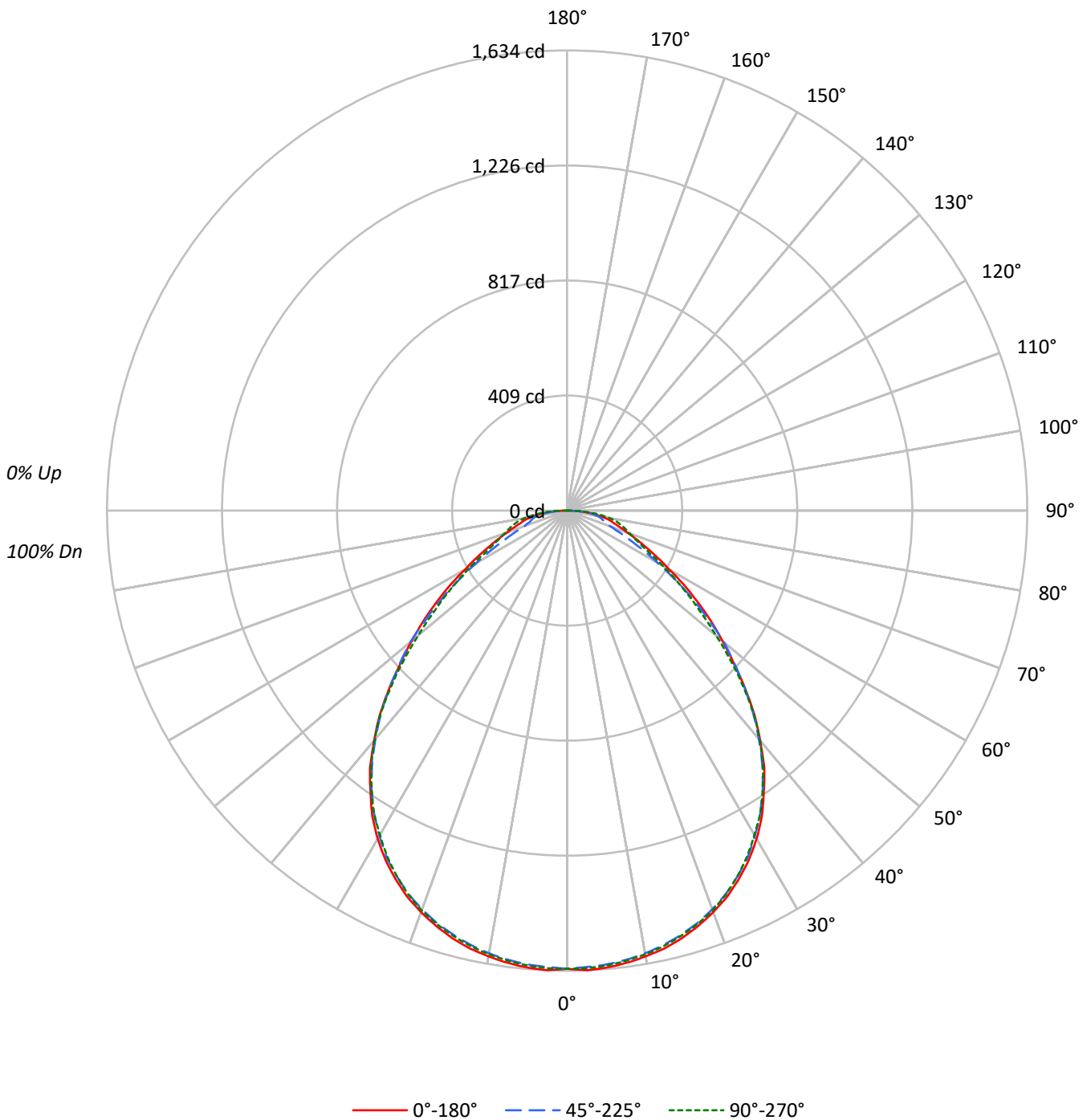
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2189	2189	2189
5°	2200	2185	2190
10°	2196	2181	2186
15°	2190	2173	2178
20°	2173	2157	2163
25°	2143	2127	2125
30°	2091	2071	2066
35°	2001	1988	1988
40°	1872	1861	1869
45°	1700	1697	1683
50°	1508	1519	1445
55°	1325	1267	1237
60°	1128	1001	1052
65°	986	778	929
70°	891	640	927
75°	892	684	1036
80°	982	841	1185
85°	1013	945	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	4.2
10°-20°	441.0	11.9
20°-30°	659.7	17.8
30°-40°	754.9	20.4
40°-50°	684.0	18.5
50°-60°	484.2	13.1
60°-70°	279.7	7.6
70°-80°	169.6	4.6
80°-90°	71.4	1.9
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°	1254.8	33.9
0°-40°	2009.7	54.3
0°-60°	3177.9	85.9
0°-90°	3698.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1629	1623	1618	1617	1621	155
15°	1572	1566	1560	1560	1563	443
25°	1443	1437	1433	1432	1432	664
35°	1218	1213	1210	1209	1210	760
45°	893	892	892	885	885	688
55°	565	546	540	524	527	506
65°	310	278	244	280	292	311
75°	172	154	132	169	199	184
85°	66	59	61	78	84	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1626.8	1626.8	1626.8	1626.8	1626.8
2.5°	1633.7	1627.5	1622.1	1622.8	1626.8
5°	1628.6	1622.8	1617.7	1617.3	1621.3
7.5°	1619.9	1614.8	1608.9	1608.9	1612.2
10°	1607.5	1602.4	1596.6	1596.2	1599.8
12.5°	1592.9	1586.4	1580.2	1580.2	1584.2
15°	1572.2	1566.0	1559.8	1559.8	1563.4
17.5°	1546.7	1541.2	1536.1	1536.5	1539.4
20°	1517.5	1512.1	1506.6	1507.3	1510.6
22.5°	1484.0	1477.5	1473.1	1472.7	1474.9
25°	1443.2	1437.4	1432.7	1431.6	1431.6
27.5°	1397.7	1391.5	1388.3	1383.2	1384.6
30°	1345.6	1339.1	1333.3	1330.3	1330.0
32.5°	1287.0	1280.5	1275.4	1275.0	1276.5
35°	1218.2	1212.7	1210.5	1208.7	1210.5
37.5°	1150.1	1139.9	1138.1	1137.7	1142.4
40°	1066.0	1062.3	1059.8	1057.9	1064.1
42.5°	985.1	977.8	978.6	971.6	982.6
45°	893.3	891.5	891.9	885.3	884.6
47.5°	802.3	801.9	807.4	789.2	788.1
50°	720.3	716.7	725.8	697.8	690.1
52.5°	642.0	631.9	628.9	603.4	603.4
55°	564.8	545.9	540.1	524.1	527.3
57.5°	491.6	464.7	452.7	452.3	457.8
60°	419.2	388.6	371.8	384.9	391.1
62.5°	361.6	328.1	302.6	327.4	333.2
65°	309.6	277.5	244.4	279.7	291.7
67.5°	264.8	238.2	196.7	242.9	258.9
70°	226.5	202.8	162.8	214.1	235.6
72.5°	196.3	176.6	141.7	191.2	217.1
75°	171.5	153.7	131.5	169.0	199.2
77.5°	151.9	130.7	123.1	147.9	178.8
80°	126.7	107.4	108.5	127.1	153.0
82.5°	97.6	83.0	87.4	105.2	120.2
85°	65.6	59.0	61.2	78.3	83.8
87.5°	32.4	31.3	33.5	45.9	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)