

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: P475748

Luminaire Tested: **24GR-LD5-38-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475748
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3772.7 lumens
Efficiency: N/A
Efficacy: 141.8 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

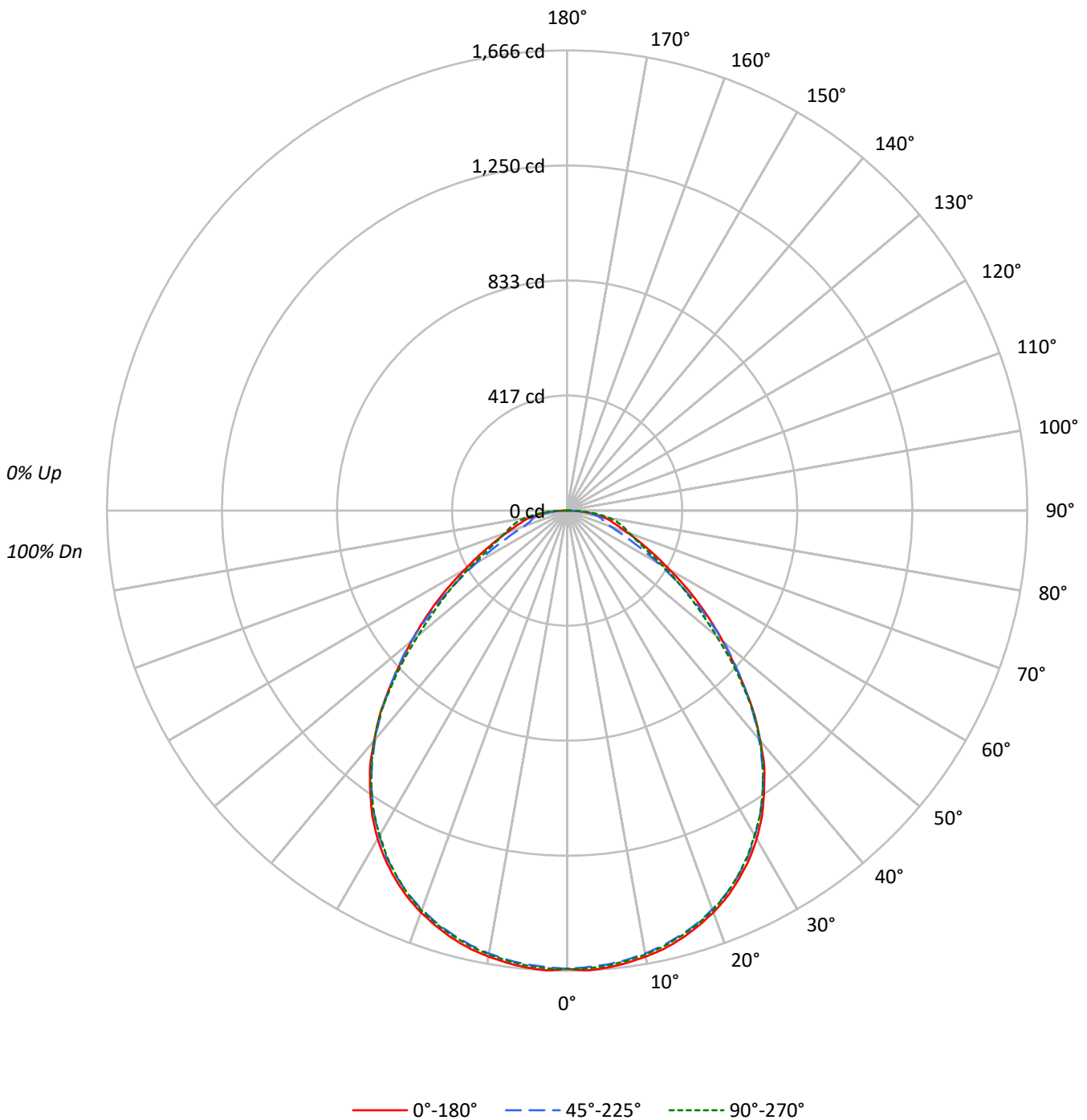
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2233	2233	2233
5°	2244	2229	2234
10°	2240	2225	2229
15°	2234	2216	2221
20°	2216	2200	2206
25°	2185	2169	2168
30°	2133	2113	2108
35°	2041	2028	2028
40°	1910	1899	1906
45°	1734	1731	1717
50°	1538	1550	1473
55°	1351	1292	1262
60°	1151	1021	1074
65°	1005	794	947
70°	909	653	945
75°	910	697	1056
80°	1002	858	1209
85°	1033	963	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	4.2
10°-20°	449.8	11.9
20°-30°	672.9	17.8
30°-40°	770.0	20.4
40°-50°	697.7	18.5
50°-60°	493.9	13.1
60°-70°	285.3	7.6
70°-80°	173.0	4.6
80°-90°	72.8	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°	1279.9	33.9
0°-40°	2049.9	54.3
0°-60°	3241.5	85.9
0°-90°	3772.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1661	1655	1650	1650	1654	158
15°	1604	1597	1591	1591	1595	452
25°	1472	1466	1461	1460	1460	677
35°	1242	1237	1235	1233	1235	775
45°	911	909	910	903	902	702
55°	576	557	551	534	538	516
65°	316	283	249	285	298	317
75°	175	157	134	172	203	187
85°	67	60	62	80	85	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.3	1659.3	1659.3	1659.3	1659.3
2.5°	1666.4	1660.1	1654.5	1655.2	1659.3
5°	1661.2	1655.2	1650.0	1649.7	1653.8
7.5°	1652.3	1647.1	1641.1	1641.1	1644.5
10°	1639.6	1634.4	1628.5	1628.1	1631.8
12.5°	1624.8	1618.1	1611.8	1611.8	1615.9
15°	1603.6	1597.3	1591.0	1591.0	1594.7
17.5°	1577.6	1572.0	1566.8	1567.2	1570.2
20°	1547.9	1542.3	1536.7	1537.5	1540.8
22.5°	1513.7	1507.0	1502.6	1502.2	1504.4
25°	1472.1	1466.2	1461.3	1460.2	1460.2
27.5°	1425.7	1419.4	1416.0	1410.8	1412.3
30°	1372.6	1365.9	1359.9	1357.0	1356.6
32.5°	1312.8	1306.1	1300.9	1300.5	1302.0
35°	1242.5	1237.0	1234.7	1232.9	1234.7
37.5°	1173.1	1162.7	1160.8	1160.5	1165.3
40°	1087.3	1083.6	1081.0	1079.1	1085.4
42.5°	1004.8	997.4	998.1	991.1	1002.2
45°	911.2	909.3	909.7	903.0	902.3
47.5°	818.3	818.0	823.5	805.0	803.8
50°	734.8	731.0	740.3	711.7	703.9
52.5°	654.9	644.5	641.5	615.5	615.5
55°	576.1	556.8	550.9	534.5	537.9
57.5°	501.5	474.0	461.7	461.4	466.9
60°	427.6	396.4	379.3	392.6	399.0
62.5°	368.9	334.7	308.7	333.9	339.9
65°	315.7	283.1	249.3	285.3	297.5
67.5°	270.1	242.9	200.6	247.8	264.1
70°	231.1	206.9	166.0	218.4	240.3
72.5°	200.2	180.2	144.5	195.0	221.4
75°	175.0	156.8	134.1	172.4	203.2
77.5°	154.9	133.4	125.6	150.8	182.4
80°	129.3	109.6	110.7	129.6	156.0
82.5°	99.6	84.7	89.2	107.4	122.6
85°	66.9	60.2	62.4	79.9	85.4
87.5°	33.1	31.9	34.2	46.8	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)