

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: P475538

Luminaire Tested: **24GR-LD5-38-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475538
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F1-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812.9 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

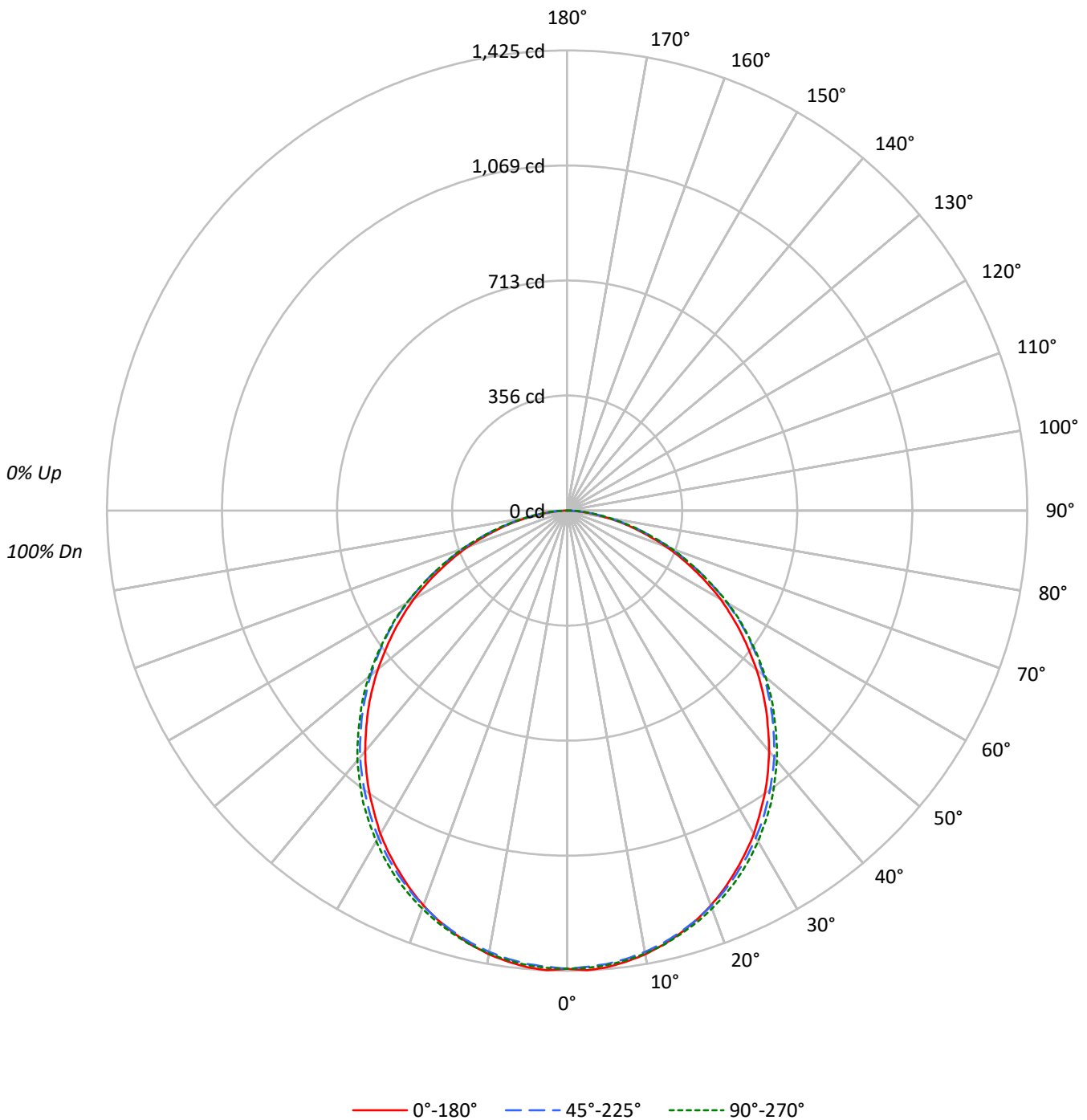
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1909	1909	1909
5°	1917	1904	1909
10°	1906	1896	1902
15°	1887	1883	1892
20°	1863	1865	1878
25°	1830	1843	1861
30°	1797	1817	1837
35°	1754	1784	1811
40°	1710	1752	1775
45°	1658	1709	1727
50°	1602	1664	1679
55°	1540	1608	1617
60°	1476	1542	1548
65°	1383	1449	1445
70°	1281	1340	1353
75°	1135	1201	1209
80°	945	1014	1038
85°	716	786	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.5
10°-20°	381.7	10.0
20°-30°	572.0	15.0
30°-40°	678.6	17.8
40°-50°	689.2	18.1
50°-60°	606.9	15.9
60°-70°	446.0	11.7
70°-80°	242.6	6.4
80°-90°	61.8	1.6
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°	1087.8	28.5
0°-40°	1766.4	46.3
0°-60°	3062.5	80.3
0°-90°	3812.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1420	1414	1409	1409	1413	135
15°	1355	1352	1352	1354	1358	382
25°	1233	1234	1241	1248	1254	568
35°	1068	1074	1086	1097	1102	668
45°	872	879	898	909	908	672
55°	656	666	685	692	689	587
65°	434	442	455	458	454	431
75°	218	223	231	232	233	232
85°	46	48	51	55	57	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.7	1418.7	1418.7	1418.7	1418.7
2.5°	1424.7	1419.1	1414.2	1414.2	1417.6
5°	1419.5	1413.5	1409.4	1409.4	1413.1
7.5°	1408.6	1403.7	1400.4	1400.4	1404.5
10°	1395.1	1390.3	1387.7	1388.0	1392.5
12.5°	1377.2	1372.7	1371.6	1372.3	1377.9
15°	1354.8	1352.1	1352.1	1354.0	1358.1
17.5°	1329.7	1327.1	1329.0	1331.6	1336.8
20°	1301.3	1299.4	1302.8	1306.9	1311.8
22.5°	1268.8	1268.0	1273.6	1279.2	1284.1
25°	1232.9	1234.4	1241.1	1248.2	1253.8
27.5°	1195.8	1197.3	1206.7	1214.2	1219.8
30°	1156.6	1157.3	1169.3	1178.3	1182.4
32.5°	1111.0	1116.9	1129.7	1138.3	1142.0
35°	1068.0	1073.9	1085.9	1096.7	1102.4
37.5°	1021.2	1026.4	1042.2	1053.7	1055.6
40°	973.3	978.2	997.7	1007.4	1010.4
42.5°	921.0	930.3	947.9	957.6	959.5
45°	871.6	878.7	898.2	908.7	907.5
47.5°	818.9	826.8	845.8	855.9	857.8
50°	765.4	774.4	795.0	801.7	802.1
52.5°	709.4	720.9	739.6	748.6	745.6
55°	656.3	665.6	685.4	691.8	689.2
57.5°	601.7	612.1	630.5	633.8	634.2
60°	548.6	557.2	572.9	576.2	575.1
62.5°	490.2	498.8	513.0	516.4	513.8
65°	434.5	441.6	455.1	458.4	454.0
67.5°	379.2	386.3	396.7	402.0	397.1
70°	325.7	331.3	340.7	343.6	344.0
72.5°	268.9	279.0	285.7	285.3	284.2
75°	218.4	222.9	231.1	231.8	232.6
77.5°	170.1	171.3	179.9	182.1	180.6
80°	121.9	126.0	130.9	133.5	133.9
82.5°	80.4	83.4	87.5	92.0	92.0
85°	46.4	47.5	50.9	55.3	57.2
87.5°	18.7	20.6	23.9	27.3	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)