

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: P475598

Luminaire Tested: **24GR-LD5-38-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475598  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-F125-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 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 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

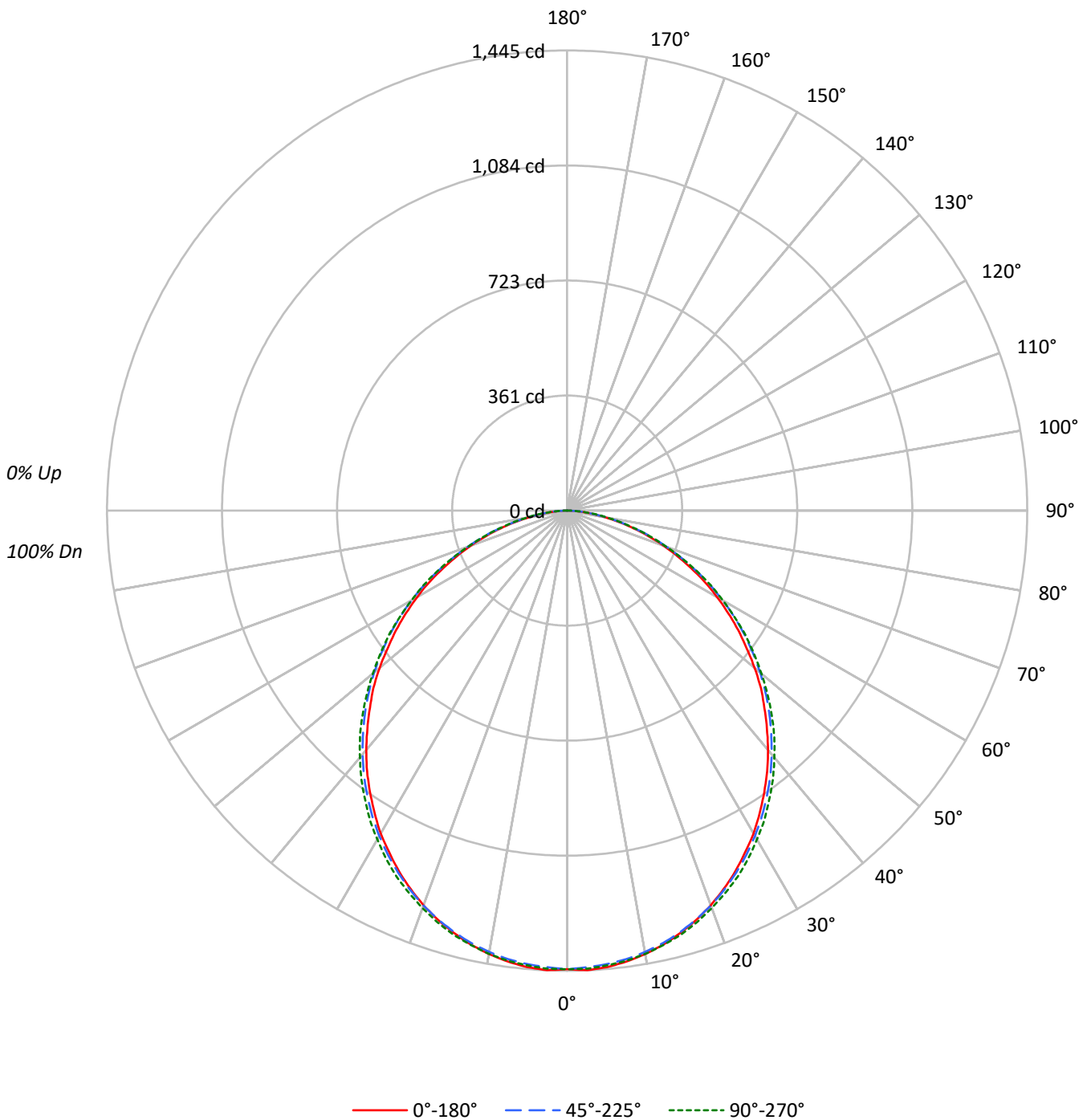
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1938	1938	1938
5°	1943	1931	1937
10°	1932	1923	1931
15°	1913	1909	1921
20°	1888	1889	1902
25°	1856	1863	1883
30°	1819	1833	1852
35°	1773	1797	1818
40°	1724	1755	1778
45°	1667	1708	1729
50°	1609	1656	1667
55°	1539	1595	1606
60°	1466	1516	1517
65°	1369	1422	1430
70°	1269	1304	1300
75°	1127	1168	1171
80°	943	976	1013
85°	707	761	787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	3.6
10°-20°	387.1	10.2
20°-30°	578.6	15.2
30°-40°	683.6	17.9
40°-50°	690.1	18.1
50°-60°	602.3	15.8
60°-70°	439.1	11.5
70°-80°	236.8	6.2
80°-90°	59.3	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°	1101.8	28.9
0°-40°	1785.4	46.8
0°-60°	3077.8	80.7
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°	1440	1440	1440	1440	1440	
5°	1439	1434	1430	1431	1434	137
15°	1373	1371	1370	1374	1379	387
25°	1250	1250	1255	1263	1268	576
35°	1079	1082	1094	1104	1107	675
45°	876	882	897	909	909	676
55°	656	664	680	682	685	586
65°	430	439	447	448	449	427
75°	217	219	225	225	225	230
85°	46	47	49	52	51	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1440.0	1440.0	1440.0	1440.0	1440.0
2.5°	1444.7	1439.5	1435.4	1436.3	1439.7
5°	1438.9	1433.7	1429.8	1431.1	1433.9
7.5°	1428.5	1423.7	1420.7	1422.0	1425.7
10°	1414.2	1410.3	1407.5	1409.5	1413.4
12.5°	1396.1	1392.2	1391.1	1393.9	1397.4
15°	1373.4	1370.6	1370.4	1373.6	1378.8
17.5°	1347.9	1345.1	1346.6	1350.9	1355.4
20°	1318.9	1316.3	1319.3	1325.2	1328.2
22.5°	1285.8	1283.7	1289.1	1295.1	1299.0
25°	1250.0	1250.2	1254.9	1262.9	1268.1
27.5°	1210.2	1211.7	1218.8	1226.6	1231.8
30°	1171.1	1169.8	1179.9	1188.4	1192.3
32.5°	1125.7	1126.3	1138.2	1146.9	1152.7
35°	1079.2	1082.2	1093.9	1104.5	1106.7
37.5°	1032.3	1034.5	1048.5	1058.9	1061.7
40°	981.5	985.4	999.2	1009.0	1012.4
42.5°	928.6	933.5	948.4	958.6	963.1
45°	876.0	882.3	897.4	908.7	908.9
47.5°	825.2	829.8	844.5	854.4	853.3
50°	768.6	775.3	791.1	797.1	796.5
52.5°	710.7	720.8	735.3	740.1	739.4
55°	656.2	664.2	679.8	682.4	684.7
57.5°	599.8	606.7	623.6	624.7	624.2
60°	544.7	551.0	563.3	566.3	563.9
62.5°	489.1	495.4	506.4	509.5	509.0
65°	430.1	439.4	446.8	447.6	449.1
67.5°	375.2	381.1	388.2	389.5	388.4
70°	322.5	327.5	331.6	332.4	330.5
72.5°	268.0	272.6	278.4	279.5	277.3
75°	216.8	219.0	224.6	225.4	225.2
77.5°	167.1	168.8	172.9	176.2	176.6
80°	121.7	122.3	126.0	128.4	130.8
82.5°	80.6	82.4	85.2	87.5	89.7
85°	45.8	46.9	49.3	51.7	51.0
87.5°	17.7	20.1	20.3	22.7	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)