

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: P475628

Luminaire Tested: **24GR-LD5-38-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475628
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3889.1 lumens
Efficiency: N/A
Efficacy: 146.2 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

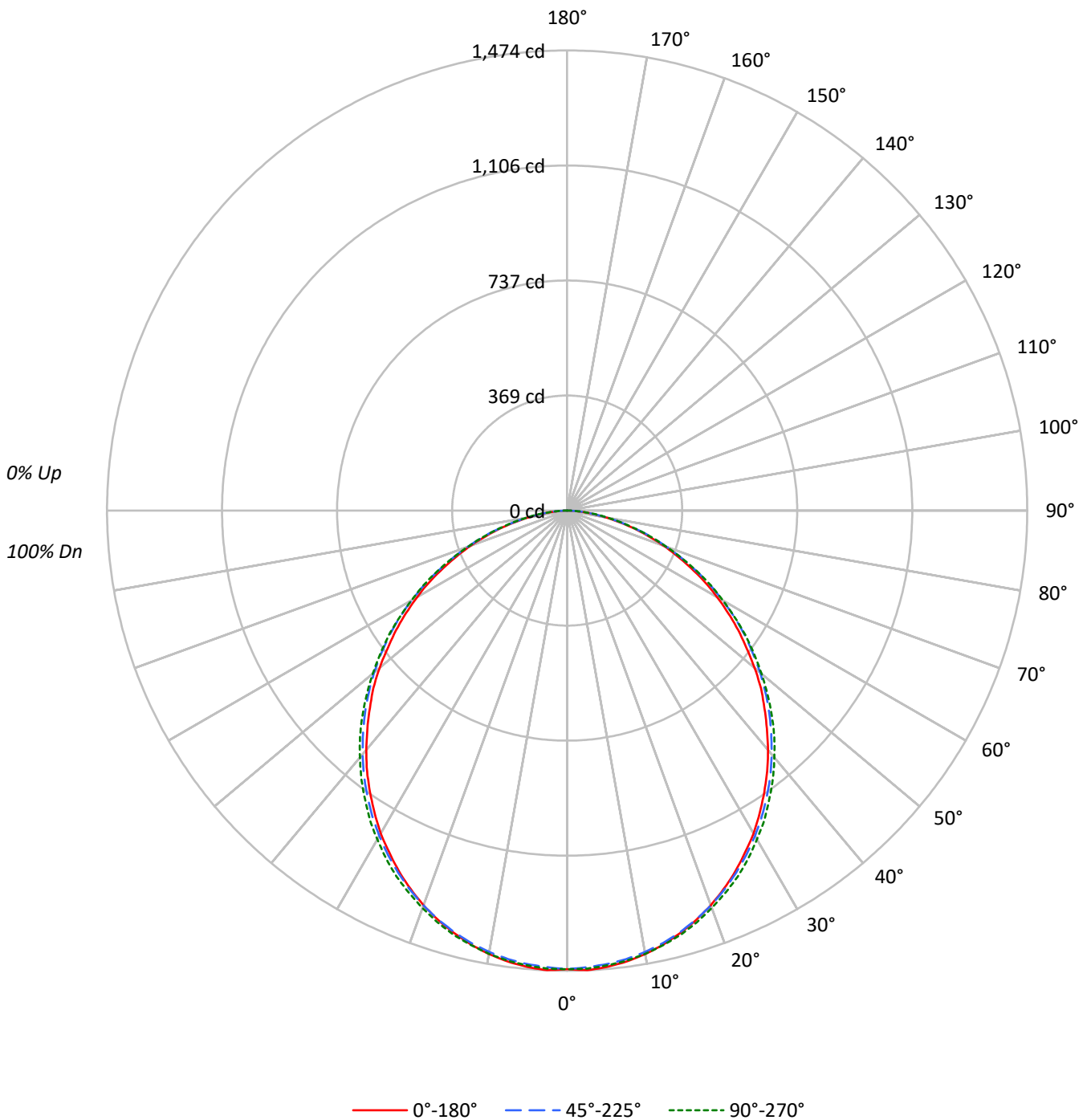
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1976	1976	1976
5°	1982	1970	1975
10°	1971	1962	1970
15°	1951	1947	1959
20°	1926	1927	1940
25°	1893	1900	1920
30°	1856	1870	1889
35°	1808	1833	1854
40°	1758	1790	1814
45°	1700	1742	1764
50°	1641	1689	1701
55°	1570	1627	1638
60°	1495	1546	1548
65°	1397	1451	1458
70°	1294	1330	1326
75°	1149	1191	1194
80°	962	996	1034
85°	721	777	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	3.6
10°-20°	394.8	10.2
20°-30°	590.2	15.2
30°-40°	697.3	17.9
40°-50°	703.9	18.1
50°-60°	614.3	15.8
60°-70°	447.8	11.5
70°-80°	241.5	6.2
80°-90°	60.5	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°	1123.8	28.9
0°-40°	1821.1	46.8
0°-60°	3139.3	80.7
0°-90°	3889.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3889.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1468	1462	1458	1460	1463	139
15°	1401	1398	1398	1401	1406	395
25°	1275	1275	1280	1288	1294	587
35°	1101	1104	1116	1127	1129	689
45°	894	900	915	927	927	690
55°	669	678	693	696	698	598
65°	439	448	456	457	458	436
75°	221	223	229	230	230	235
85°	47	48	50	53	52	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.8	1468.8	1468.8	1468.8	1468.8
2.5°	1473.6	1468.3	1464.1	1465.0	1468.5
5°	1467.6	1462.4	1458.4	1459.7	1462.6
7.5°	1457.1	1452.2	1449.1	1450.5	1454.2
10°	1442.5	1438.5	1435.7	1437.7	1441.6
12.5°	1424.0	1420.0	1418.9	1421.8	1425.3
15°	1400.8	1398.0	1397.8	1401.1	1406.4
17.5°	1374.8	1372.0	1373.5	1377.9	1382.5
20°	1345.3	1342.6	1345.7	1351.7	1354.8
22.5°	1311.6	1309.4	1314.9	1321.0	1325.0
25°	1275.0	1275.2	1280.0	1288.2	1293.5
27.5°	1234.4	1235.9	1243.2	1251.2	1256.4
30°	1194.5	1193.2	1203.5	1212.1	1216.1
32.5°	1148.2	1148.9	1161.0	1169.8	1175.8
35°	1100.8	1103.9	1115.8	1126.6	1128.8
37.5°	1053.0	1055.2	1069.5	1080.1	1082.9
40°	1001.1	1005.1	1019.2	1029.1	1032.7
42.5°	947.1	952.2	967.4	977.8	982.4
45°	893.6	899.9	915.4	926.8	927.1
47.5°	841.7	846.4	861.4	871.5	870.4
50°	784.0	790.8	806.9	813.1	812.4
52.5°	724.9	735.3	750.0	754.9	754.2
55°	669.3	677.5	693.4	696.0	698.4
57.5°	611.8	618.9	636.0	637.1	636.7
60°	555.6	562.0	574.5	577.6	575.2
62.5°	498.9	505.3	516.6	519.6	519.2
65°	438.7	448.2	455.7	456.6	458.1
67.5°	382.7	388.7	396.0	397.3	396.2
70°	328.9	334.0	338.2	339.1	337.1
72.5°	273.4	278.0	284.0	285.1	282.9
75°	221.1	223.3	229.1	229.9	229.7
77.5°	170.4	172.2	176.4	179.7	180.1
80°	124.1	124.8	128.5	131.0	133.4
82.5°	82.2	84.0	86.9	89.3	91.5
85°	46.7	47.8	50.3	52.7	52.0
87.5°	18.1	20.5	20.7	23.1	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)