

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: P475599

Luminaire Tested: **24GR-LD5-42-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475599
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-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: 4288.8 lumens
Efficiency: N/A
Efficacy: 141.5 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

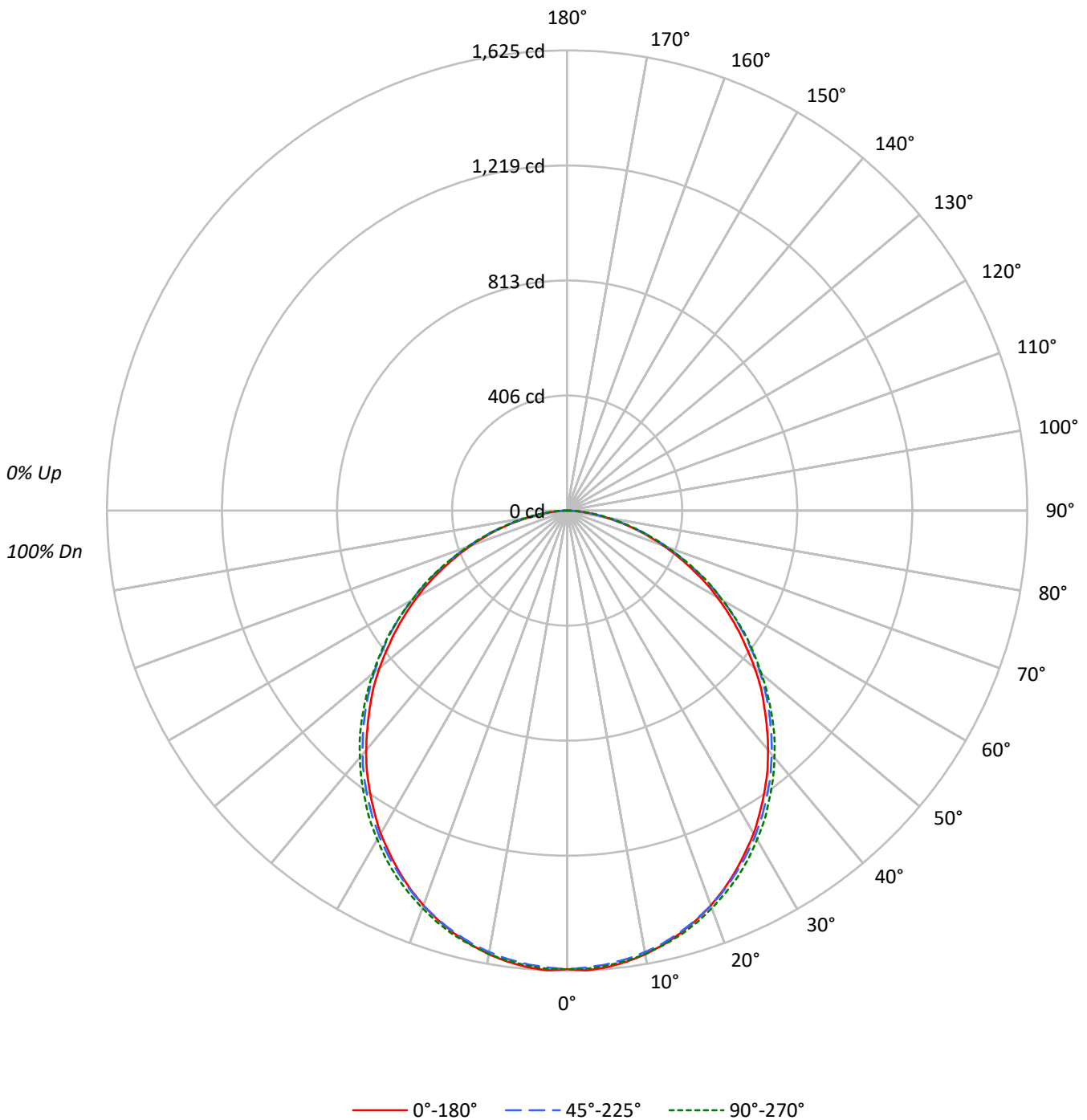
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2179	2179	2179
5°	2186	2172	2178
10°	2173	2163	2172
15°	2152	2147	2160
20°	2124	2125	2139
25°	2087	2096	2118
30°	2047	2062	2084
35°	1994	2021	2045
40°	1939	1974	2000
45°	1875	1921	1945
50°	1810	1863	1875
55°	1731	1794	1807
60°	1649	1705	1707
65°	1540	1600	1608
70°	1427	1467	1462
75°	1268	1313	1317
80°	1061	1098	1140
85°	795	855	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.6
10°-20°	435.4	10.2
20°-30°	650.9	15.2
30°-40°	769.0	17.9
40°-50°	776.3	18.1
50°-60°	677.4	15.8
60°-70°	493.9	11.5
70°-80°	266.3	6.2
80°-90°	66.7	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°	1239.3	28.9
0°-40°	2008.3	46.8
0°-60°	3462.0	80.7
0°-90°	4288.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4288.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1618	1613	1608	1610	1613	154
15°	1545	1542	1541	1545	1551	436
25°	1406	1406	1412	1421	1426	647
35°	1214	1217	1230	1242	1245	759
45°	985	992	1010	1022	1022	761
55°	738	747	765	768	770	660
65°	484	494	502	504	505	481
75°	244	246	253	254	253	259
85°	52	53	55	58	57	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1619.7	1619.7	1619.7	1619.7	1619.7
2.5°	1625.1	1619.2	1614.6	1615.6	1619.5
5°	1618.5	1612.7	1608.3	1609.7	1612.9
7.5°	1606.8	1601.5	1598.1	1599.5	1603.7
10°	1590.8	1586.4	1583.2	1585.4	1589.8
12.5°	1570.4	1566.0	1564.8	1567.9	1571.8
15°	1544.8	1541.7	1541.4	1545.1	1550.9
17.5°	1516.1	1513.0	1514.7	1519.5	1524.6
20°	1483.6	1480.6	1484.0	1490.6	1494.0
22.5°	1446.4	1443.9	1450.0	1456.8	1461.2
25°	1406.0	1406.2	1411.6	1420.6	1426.4
27.5°	1361.3	1363.0	1371.0	1379.7	1385.6
30°	1317.3	1315.8	1327.2	1336.7	1341.1
32.5°	1266.2	1266.9	1280.3	1290.0	1296.6
35°	1213.9	1217.3	1230.5	1242.4	1244.8
37.5°	1161.2	1163.6	1179.4	1191.1	1194.2
40°	1104.0	1108.4	1124.0	1134.9	1138.8
42.5°	1044.5	1050.1	1066.8	1078.3	1083.4
45°	985.4	992.4	1009.5	1022.1	1022.3
47.5°	928.3	933.4	949.9	961.1	959.9
50°	864.6	872.1	889.8	896.7	895.9
52.5°	799.4	810.8	827.1	832.5	831.7
55°	738.1	747.1	764.6	767.6	770.2
57.5°	674.7	682.5	701.4	702.6	702.2
60°	612.7	619.7	633.6	637.0	634.3
62.5°	550.2	557.2	569.6	573.0	572.6
65°	483.8	494.3	502.5	503.5	505.2
67.5°	422.1	428.6	436.7	438.1	436.9
70°	362.7	368.3	373.0	373.9	371.7
72.5°	301.5	306.6	313.1	314.4	311.9
75°	243.9	246.3	252.6	253.6	253.3
77.5°	187.9	189.9	194.5	198.1	198.6
80°	136.9	137.6	141.7	144.4	147.1
82.5°	90.7	92.6	95.8	98.5	100.9
85°	51.5	52.8	55.4	58.1	57.4
87.5°	19.9	22.6	22.9	25.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)