

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: P475612

Luminaire Tested: **24GR-LD5-34-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475612
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3517.5 lumens
Efficiency: N/A
Efficacy: 146.6 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

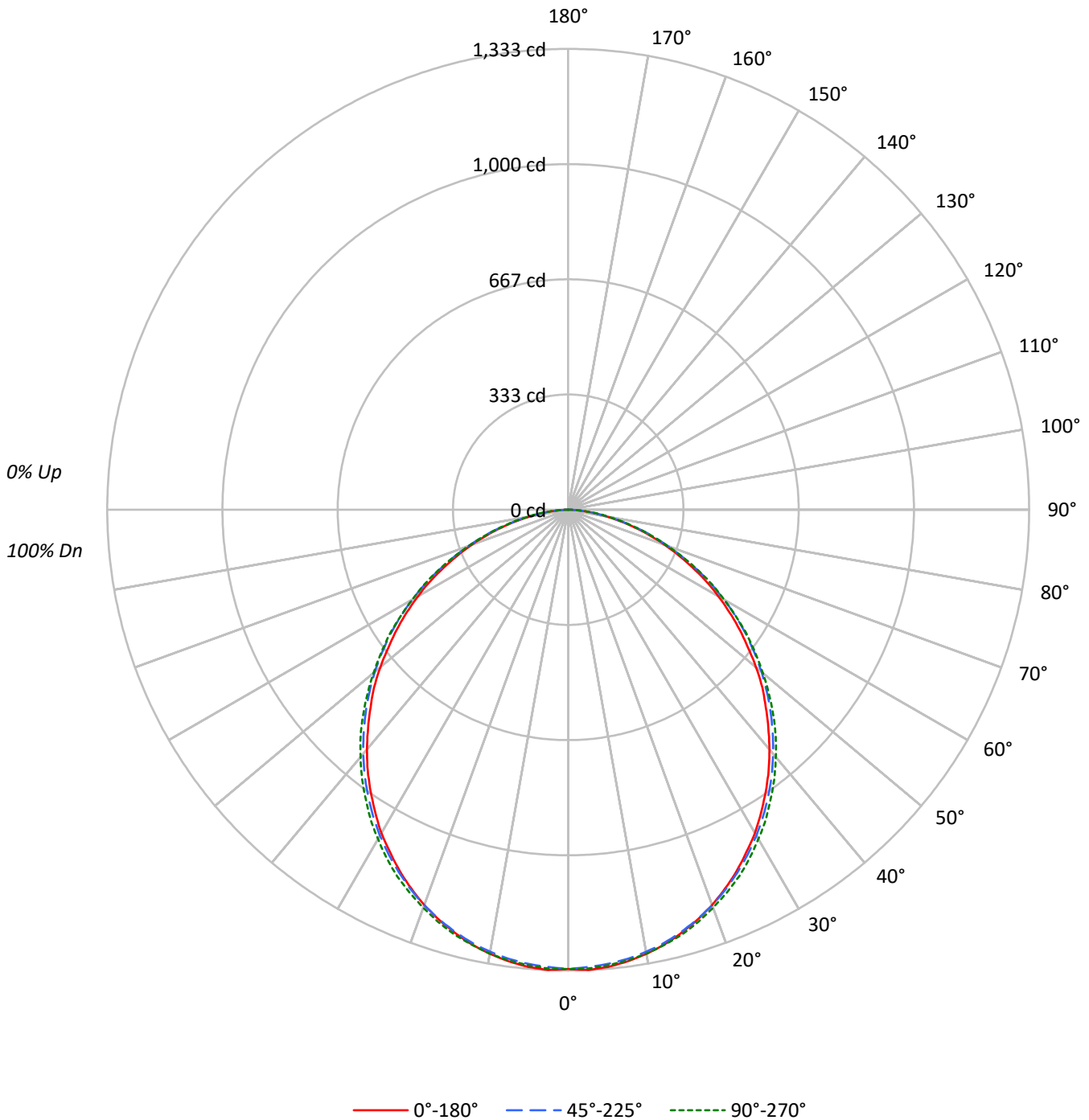
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1787	1787	1787
5°	1793	1781	1787
10°	1783	1774	1781
15°	1765	1761	1772
20°	1742	1743	1754
25°	1712	1719	1737
30°	1678	1691	1709
35°	1635	1658	1677
40°	1590	1619	1640
45°	1538	1575	1596
50°	1484	1528	1538
55°	1420	1471	1482
60°	1352	1398	1400
65°	1263	1312	1319
70°	1170	1203	1199
75°	1040	1077	1080
80°	870	900	934
85°	653	702	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.6
10°-20°	357.1	10.2
20°-30°	533.8	15.2
30°-40°	630.7	17.9
40°-50°	636.6	18.1
50°-60°	555.6	15.8
60°-70°	405.0	11.5
70°-80°	218.4	6.2
80°-90°	54.7	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°	1016.4	28.9
0°-40°	1647.1	46.8
0°-60°	2839.3	80.7
0°-90°	3517.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3517.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1327	1323	1319	1320	1323	126
15°	1267	1264	1264	1267	1272	357
25°	1153	1153	1158	1165	1170	531
35°	996	998	1009	1019	1021	623
45°	808	814	828	838	838	624
55°	605	613	627	630	632	541
65°	397	405	412	413	414	394
75°	200	202	207	208	208	213
85°	42	43	46	48	47	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.4	1328.4	1328.4	1328.4	1328.4
2.5°	1332.8	1328.0	1324.2	1325.0	1328.2
5°	1327.4	1322.6	1319.0	1320.2	1322.8
7.5°	1317.8	1313.4	1310.6	1311.8	1315.2
10°	1304.7	1301.1	1298.5	1300.3	1303.9
12.5°	1287.9	1284.3	1283.3	1285.9	1289.1
15°	1267.0	1264.4	1264.2	1267.2	1272.0
17.5°	1243.4	1240.9	1242.3	1246.2	1250.4
20°	1216.7	1214.3	1217.1	1222.5	1225.3
22.5°	1186.2	1184.2	1189.2	1194.8	1198.4
25°	1153.1	1153.3	1157.7	1165.1	1169.9
27.5°	1116.4	1117.8	1124.4	1131.6	1136.4
30°	1080.3	1079.1	1088.5	1096.3	1099.9
32.5°	1038.5	1039.1	1050.0	1058.0	1063.4
35°	995.6	998.4	1009.2	1018.9	1020.9
37.5°	952.3	954.3	967.3	976.9	979.4
40°	905.5	909.1	921.8	930.8	934.0
42.5°	856.6	861.2	875.0	884.3	888.5
45°	808.2	813.9	827.9	838.3	838.5
47.5°	761.3	765.5	779.0	788.2	787.2
50°	709.1	715.2	729.8	735.4	734.8
52.5°	655.6	665.0	678.4	682.7	682.1
55°	605.4	612.8	627.1	629.5	631.7
57.5°	553.3	559.7	575.3	576.3	575.9
60°	502.5	508.3	519.6	522.4	520.2
62.5°	451.2	457.0	467.2	470.0	469.6
65°	396.8	405.4	412.2	413.0	414.3
67.5°	346.2	351.5	358.1	359.3	358.3
70°	297.5	302.1	305.9	306.7	304.9
72.5°	247.3	251.4	256.8	257.8	255.8
75°	200.0	202.0	207.2	208.0	207.8
77.5°	154.1	155.7	159.5	162.5	162.9
80°	112.3	112.9	116.2	118.4	120.6
82.5°	74.4	76.0	78.6	80.8	82.8
85°	42.3	43.3	45.5	47.7	47.1
87.5°	16.4	18.5	18.7	20.9	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)