

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: P475629

Luminaire Tested: **24GR-LD5-42-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475629
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-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: 4374.6 lumens
Efficiency: N/A
Efficacy: 144.4 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

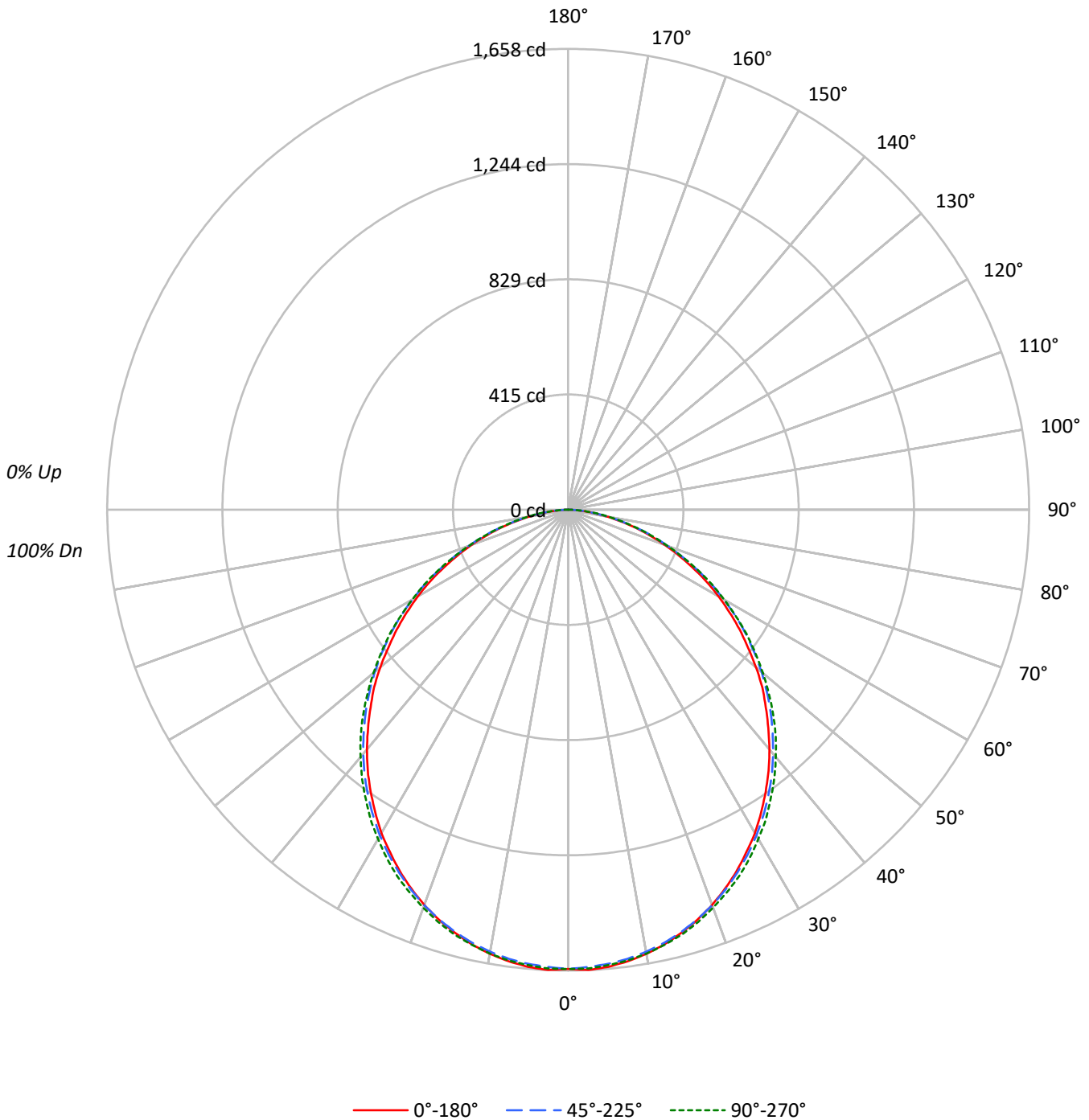
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2223	2223	2223
5°	2230	2216	2222
10°	2217	2206	2216
15°	2195	2190	2204
20°	2167	2167	2182
25°	2129	2138	2160
30°	2087	2103	2125
35°	2034	2062	2086
40°	1978	2014	2040
45°	1913	1959	1984
50°	1846	1900	1913
55°	1766	1829	1843
60°	1682	1739	1741
65°	1571	1632	1641
70°	1456	1496	1492
75°	1293	1340	1343
80°	1082	1120	1162
85°	812	872	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.6
10°-20°	444.1	10.2
20°-30°	663.9	15.2
30°-40°	784.3	17.9
40°-50°	791.8	18.1
50°-60°	691.0	15.8
60°-70°	503.7	11.5
70°-80°	271.7	6.2
80°-90°	68.0	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°	1264.1	28.9
0°-40°	2048.4	46.8
0°-60°	3531.2	80.7
0°-90°	4374.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4374.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1651	1645	1640	1642	1645	157
15°	1576	1572	1572	1576	1582	444
25°	1434	1434	1440	1449	1455	660
35°	1238	1242	1255	1267	1270	775
45°	1005	1012	1030	1042	1043	776
55°	753	762	780	783	786	673
65°	494	504	513	514	515	490
75°	249	251	258	259	258	264
85°	53	54	56	59	58	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.1	1652.1	1652.1	1652.1	1652.1
2.5°	1657.6	1651.6	1646.9	1647.9	1651.9
5°	1650.9	1644.9	1640.4	1641.9	1645.2
7.5°	1639.0	1633.5	1630.0	1631.5	1635.7
10°	1622.6	1618.1	1614.9	1617.1	1621.6
12.5°	1601.8	1597.3	1596.1	1599.3	1603.3
15°	1575.7	1572.5	1572.3	1576.0	1581.9
17.5°	1546.5	1543.2	1545.0	1549.9	1555.1
20°	1513.2	1510.3	1513.7	1520.4	1523.9
22.5°	1475.3	1472.8	1479.0	1486.0	1490.4
25°	1434.1	1434.4	1439.8	1449.0	1455.0
27.5°	1388.5	1390.2	1398.4	1407.3	1413.3
30°	1343.6	1342.1	1353.8	1363.4	1367.9
32.5°	1291.5	1292.3	1305.9	1315.8	1322.5
35°	1238.2	1241.7	1255.1	1267.2	1269.7
37.5°	1184.4	1186.9	1203.0	1214.9	1218.1
40°	1126.1	1130.6	1146.5	1157.6	1161.6
42.5°	1065.4	1071.1	1088.2	1099.8	1105.0
45°	1005.1	1012.3	1029.7	1042.5	1042.8
47.5°	946.8	952.0	968.9	980.3	979.1
50°	881.9	889.5	907.6	914.6	913.8
52.5°	815.4	827.0	843.7	849.1	848.4
55°	752.9	762.1	779.9	782.9	785.6
57.5°	688.2	696.1	715.4	716.7	716.2
60°	624.9	632.1	646.3	649.7	647.0
62.5°	561.2	568.4	581.0	584.5	584.0
65°	493.5	504.2	512.6	513.6	515.3
67.5°	430.5	437.2	445.4	446.9	445.6
70°	370.0	375.7	380.4	381.4	379.2
72.5°	307.5	312.7	319.4	320.7	318.2
75°	248.7	251.2	257.7	258.7	258.4
77.5°	191.7	193.7	198.4	202.1	202.6
80°	139.6	140.4	144.6	147.3	150.0
82.5°	92.5	94.5	97.7	100.4	102.9
85°	52.6	53.8	56.5	59.3	58.5
87.5°	20.3	23.1	23.3	26.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)