

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: P475614

Luminaire Tested: **24GR-LD5-42-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475614
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-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: 4370.3 lumens
Efficiency: N/A
Efficacy: 144.2 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

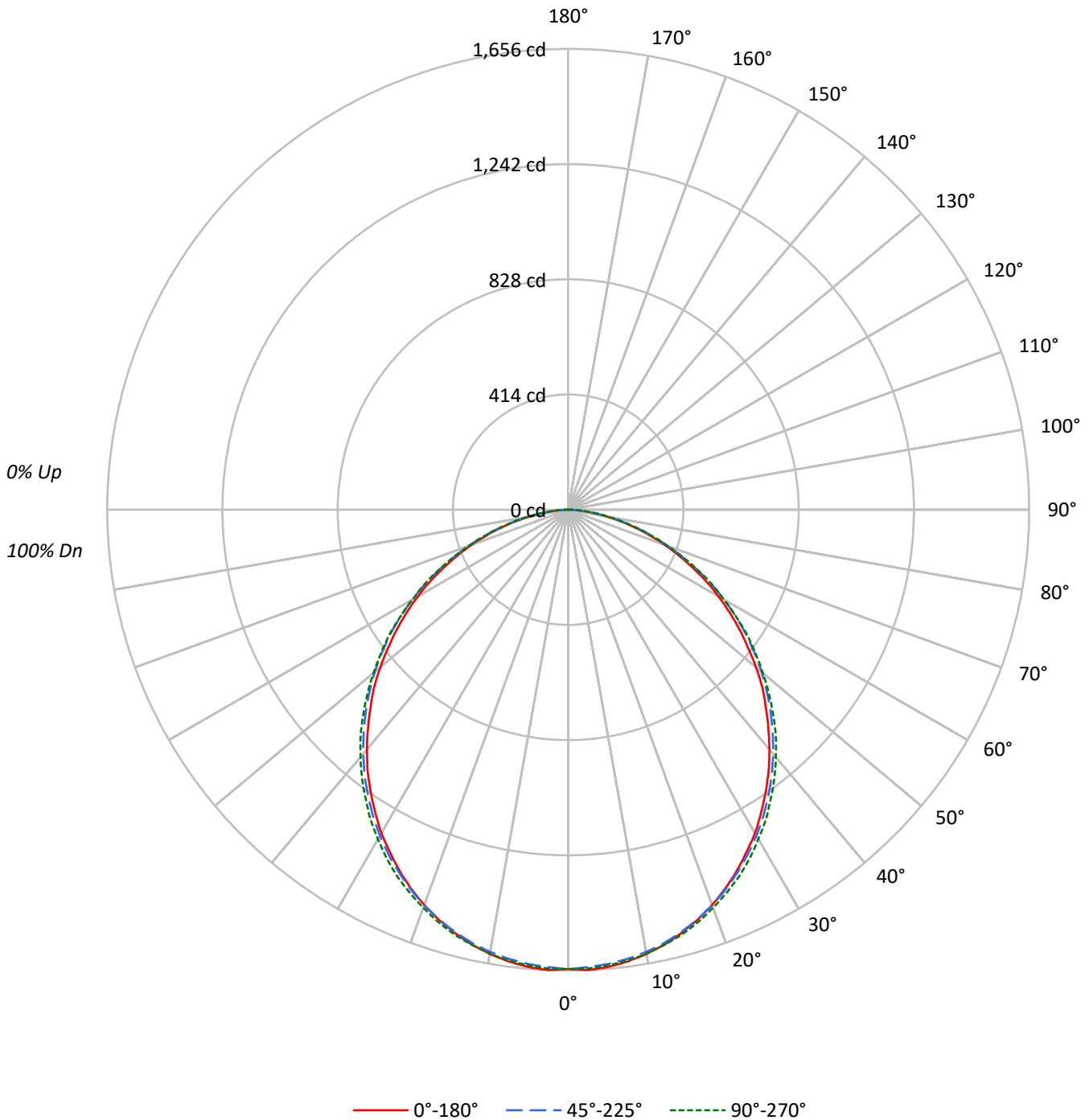
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2221	2221	2221
5°	2227	2213	2220
10°	2215	2204	2213
15°	2193	2188	2201
20°	2165	2165	2180
25°	2127	2135	2158
30°	2085	2101	2123
35°	2032	2059	2084
40°	1976	2012	2038
45°	1911	1957	1982
50°	1844	1898	1911
55°	1765	1828	1841
60°	1680	1737	1739
65°	1570	1630	1639
70°	1454	1495	1490
75°	1292	1338	1342
80°	1081	1119	1161
85°	810	872	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.6
10°-20°	443.7	10.2
20°-30°	663.2	15.2
30°-40°	783.6	17.9
40°-50°	791.0	18.1
50°-60°	690.3	15.8
60°-70°	503.2	11.5
70°-80°	271.4	6.2
80°-90°	67.9	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°	1262.8	28.9
0°-40°	2046.4	46.8
0°-60°	3527.7	80.7
0°-90°	4370.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4370.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1649	1643	1639	1640	1644	156
15°	1574	1571	1571	1574	1580	444
25°	1433	1433	1438	1448	1454	660
35°	1237	1240	1254	1266	1268	774
45°	1004	1011	1029	1042	1042	775
55°	752	761	779	782	785	672
65°	493	504	512	513	515	490
75°	248	251	257	258	258	264
85°	52	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°	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1655.9	1650.0	1645.3	1646.3	1650.2
5°	1649.2	1643.3	1638.8	1640.3	1643.5
7.5°	1637.4	1631.9	1628.4	1629.9	1634.1
10°	1621.0	1616.5	1613.3	1615.6	1620.0
12.5°	1600.2	1595.7	1594.5	1597.7	1601.7
15°	1574.2	1571.0	1570.7	1574.4	1580.4
17.5°	1544.9	1541.7	1543.5	1548.4	1553.6
20°	1511.7	1508.8	1512.2	1518.9	1522.4
22.5°	1473.8	1471.4	1477.6	1484.5	1489.0
25°	1432.7	1433.0	1438.4	1447.6	1453.5
27.5°	1387.1	1388.9	1397.0	1406.0	1411.9
30°	1342.3	1340.8	1352.4	1362.1	1366.6
32.5°	1290.3	1291.0	1304.6	1314.5	1321.2
35°	1237.0	1240.5	1253.8	1266.0	1268.5
37.5°	1183.2	1185.7	1201.8	1213.7	1216.9
40°	1125.0	1129.5	1145.3	1156.5	1160.4
42.5°	1064.3	1070.0	1087.1	1098.8	1104.0
45°	1004.1	1011.3	1028.6	1041.5	1041.8
47.5°	945.9	951.1	967.9	979.3	978.1
50°	881.0	888.7	906.8	913.7	912.9
52.5°	814.6	826.2	842.8	848.3	847.5
55°	752.2	761.3	779.2	782.1	784.9
57.5°	687.5	695.4	714.7	716.0	715.5
60°	624.3	631.5	645.6	649.1	646.4
62.5°	560.6	567.8	580.5	583.9	583.4
65°	493.0	503.7	512.1	513.1	514.8
67.5°	430.1	436.8	445.0	446.4	445.2
70°	369.6	375.3	380.0	381.0	378.8
72.5°	307.2	312.4	319.1	320.3	317.9
75°	248.5	251.0	257.4	258.4	258.2
77.5°	191.5	193.5	198.2	201.9	202.4
80°	139.5	140.2	144.4	147.2	149.9
82.5°	92.4	94.4	97.6	100.3	102.8
85°	52.5	53.8	56.5	59.2	58.5
87.5°	20.3	23.0	23.3	26.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)