

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: P475615

Luminaire Tested: **24GR-LD5-48-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475615
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-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: 4948.1 lumens
Efficiency: N/A
Efficacy: 149.9 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

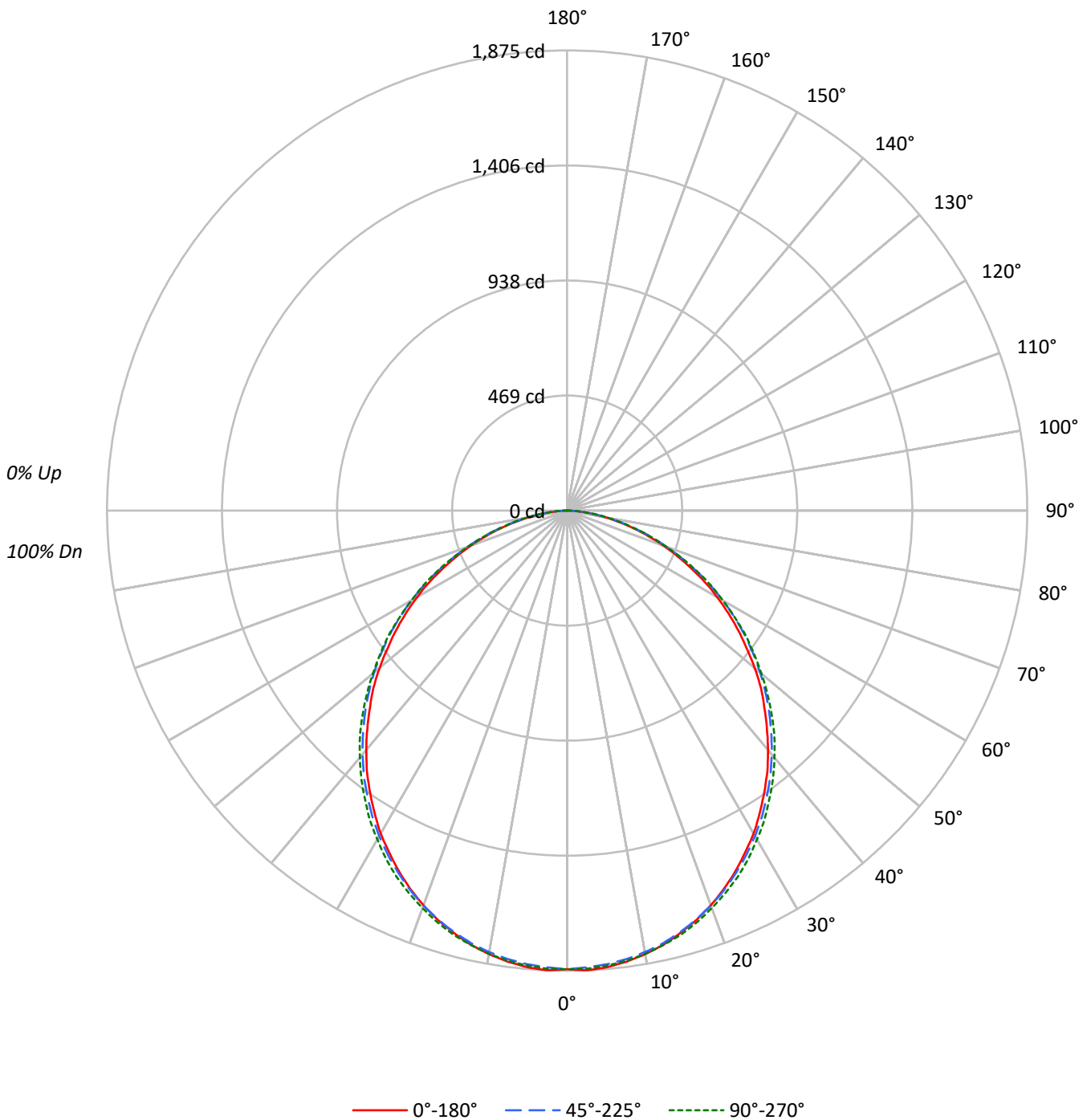
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2514	2514	2514
5°	2522	2506	2513
10°	2507	2496	2506
15°	2483	2477	2492
20°	2451	2452	2468
25°	2408	2418	2443
30°	2361	2379	2404
35°	2300	2332	2359
40°	2237	2278	2308
45°	2163	2216	2244
50°	2088	2149	2164
55°	1998	2069	2084
60°	1902	1967	1969
65°	1777	1846	1856
70°	1646	1693	1687
75°	1462	1515	1520
80°	1223	1267	1315
85°	919	988	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.6
10°-20°	502.3	10.2
20°-30°	750.9	15.2
30°-40°	887.2	17.9
40°-50°	895.6	18.1
50°-60°	781.6	15.8
60°-70°	569.8	11.5
70°-80°	307.3	6.2
80°-90°	76.9	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°	1429.8	28.9
0°-40°	2317.0	46.8
0°-60°	3994.1	80.7
0°-90°	4948.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1867	1860	1856	1857	1861	177
15°	1782	1779	1778	1783	1789	503
25°	1622	1622	1629	1639	1646	747
35°	1400	1404	1420	1433	1436	876
45°	1137	1145	1165	1179	1180	878
55°	852	862	882	886	889	761
65°	558	570	580	581	583	555
75°	281	284	291	293	292	299
85°	60	61	64	67	66	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1868.7	1868.7	1868.7	1868.7	1868.7
2.5°	1874.8	1868.1	1862.8	1863.9	1868.4
5°	1867.3	1860.5	1855.5	1857.2	1860.8
7.5°	1853.8	1847.6	1843.7	1845.4	1850.2
10°	1835.3	1830.2	1826.6	1829.1	1834.2
12.5°	1811.7	1806.7	1805.3	1808.9	1813.4
15°	1782.3	1778.6	1778.4	1782.6	1789.3
17.5°	1749.2	1745.5	1747.5	1753.1	1759.0
20°	1711.6	1708.2	1712.2	1719.7	1723.7
22.5°	1668.7	1665.9	1672.9	1680.7	1685.8
25°	1622.1	1622.4	1628.6	1638.9	1645.7
27.5°	1570.5	1572.5	1581.7	1591.8	1598.6
30°	1519.7	1518.1	1531.2	1542.2	1547.2
32.5°	1460.8	1461.7	1477.1	1488.3	1495.9
35°	1400.5	1404.5	1419.6	1433.3	1436.1
37.5°	1339.7	1342.5	1360.7	1374.2	1377.8
40°	1273.7	1278.8	1296.7	1309.4	1313.9
42.5°	1205.0	1211.5	1230.8	1244.0	1249.9
45°	1136.9	1145.0	1164.6	1179.2	1179.5
47.5°	1070.9	1076.8	1095.9	1108.8	1107.4
50°	997.5	1006.1	1026.6	1034.5	1033.6
52.5°	922.3	935.5	954.3	960.4	959.6
55°	851.6	862.0	882.2	885.5	888.6
57.5°	778.4	787.4	809.2	810.6	810.1
60°	706.9	715.0	731.0	734.9	731.8
62.5°	634.8	642.9	657.2	661.1	660.6
65°	558.2	570.3	579.8	580.9	582.9
67.5°	486.9	494.5	503.8	505.5	504.1
70°	418.5	425.0	430.3	431.4	428.9
72.5°	347.8	353.7	361.3	362.7	359.9
75°	281.3	284.1	291.4	292.6	292.3
77.5°	216.8	219.1	224.4	228.6	229.2
80°	157.9	158.8	163.5	166.6	169.7
82.5°	104.6	106.9	110.5	113.6	116.4
85°	59.5	60.9	64.0	67.0	66.2
87.5°	23.0	26.1	26.4	29.5	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)