

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: P475810

Luminaire Tested: **24GR-LD5-48-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475810
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4973.1 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

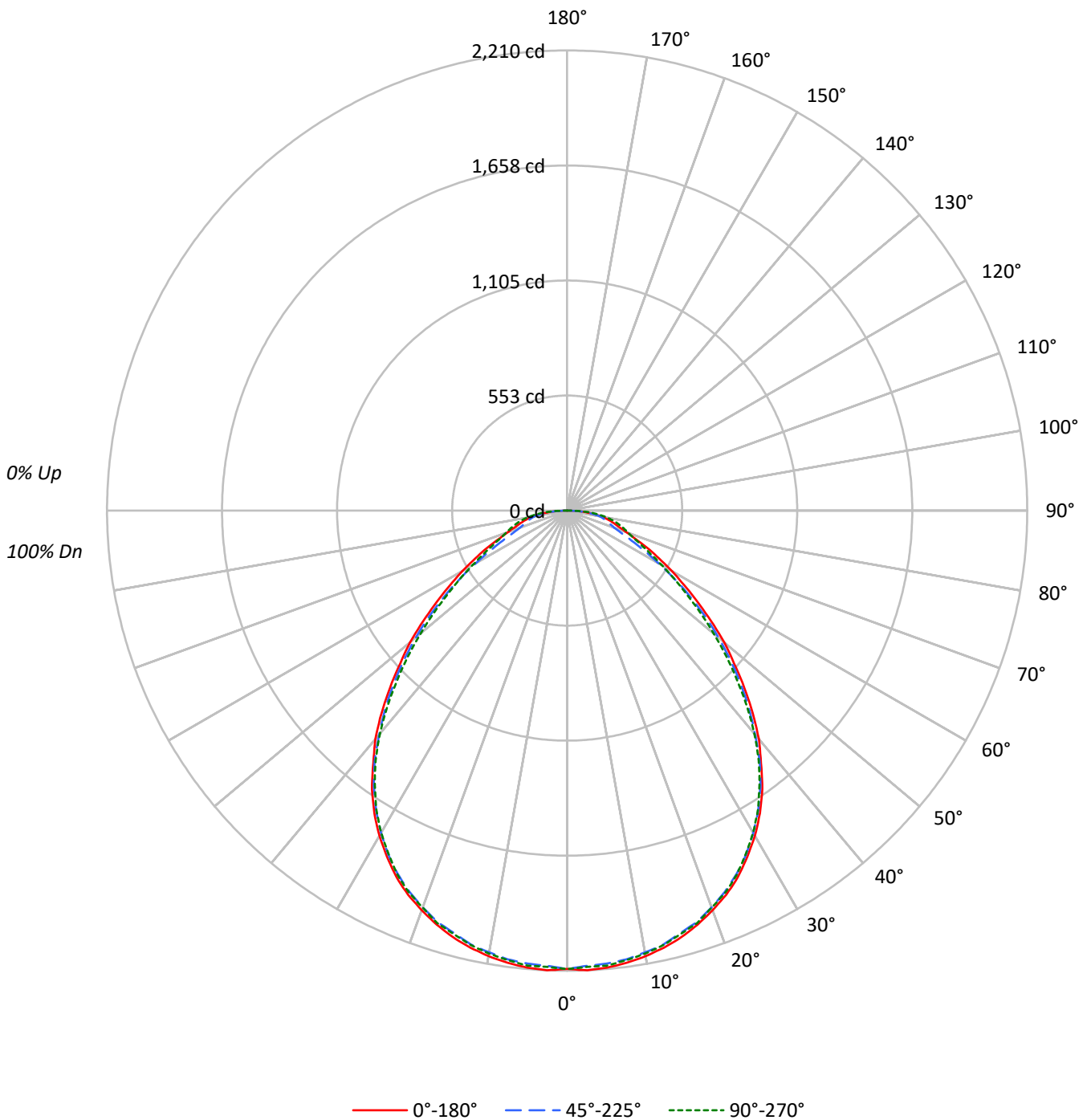
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2962	2962	2962
5°	2976	2950	2962
10°	2969	2943	2952
15°	2954	2926	2932
20°	2924	2904	2905
25°	2882	2859	2863
30°	2802	2777	2775
35°	2685	2658	2645
40°	2516	2466	2456
45°	2290	2244	2201
50°	2062	1989	1924
55°	1789	1692	1641
60°	1562	1364	1411
65°	1352	1084	1255
70°	1192	950	1225
75°	1197	1033	1340
80°	1311	1227	1517
85°	1382	1337	1740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	4.2
10°-20°	594.4	12.0
20°-30°	886.2	17.8
30°-40°	1007.5	20.3
40°-50°	908.0	18.3
50°-60°	654.0	13.2
60°-70°	380.4	7.6
70°-80°	232.8	4.7
80°-90°	101.9	2.0
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°	1688.7	34.0
0°-40°	2696.1	54.2
0°-60°	4258.1	85.6
0°-90°	4973.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4973.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2203	2188	2184	2188	2193	209
15°	2121	2109	2100	2104	2105	598
25°	1941	1930	1926	1923	1929	892
35°	1634	1623	1618	1609	1610	1017
45°	1203	1190	1179	1161	1157	928
55°	763	744	721	714	700	688
65°	425	382	340	367	394	425
75°	230	209	199	226	258	245
85°	90	89	87	118	113	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.1	2201.1	2201.1	2201.1	2201.1
2.5°	2210.0	2198.2	2188.3	2188.8	2193.7
5°	2203.1	2187.8	2183.9	2188.3	2193.2
7.5°	2190.8	2176.5	2174.1	2171.6	2177.5
10°	2173.1	2163.2	2154.4	2156.8	2160.3
12.5°	2149.5	2141.1	2134.7	2129.8	2137.2
15°	2120.9	2109.1	2100.3	2103.7	2105.2
17.5°	2085.0	2073.7	2071.2	2069.3	2076.6
20°	2042.2	2035.3	2027.9	2029.9	2028.9
22.5°	1996.9	1986.6	1980.7	1977.8	1985.6
25°	1941.4	1929.5	1925.6	1922.7	1928.6
27.5°	1873.5	1867.1	1861.7	1857.7	1858.2
30°	1803.6	1797.2	1787.4	1784.4	1786.4
32.5°	1723.4	1716.0	1707.2	1698.3	1704.7
35°	1634.4	1623.0	1618.1	1608.8	1610.3
37.5°	1529.1	1524.2	1519.7	1507.4	1511.4
40°	1432.2	1418.9	1404.1	1396.7	1398.2
42.5°	1320.0	1306.2	1294.4	1284.1	1279.1
45°	1203.4	1189.6	1179.3	1161.1	1156.6
47.5°	1087.3	1074.5	1063.2	1048.9	1036.1
50°	984.9	961.3	950.0	935.3	919.0
52.5°	869.8	856.0	833.9	821.6	806.8
55°	762.6	744.4	721.2	713.9	699.6
57.5°	666.1	646.5	612.5	609.6	609.1
60°	580.5	554.0	506.7	510.2	524.5
62.5°	497.4	459.5	416.7	432.0	453.1
65°	424.6	381.8	340.5	367.0	394.1
67.5°	354.7	316.3	281.4	316.8	345.4
70°	303.1	271.1	241.6	279.4	311.4
72.5°	259.8	235.2	216.0	250.4	284.9
75°	230.2	208.6	198.8	226.3	257.8
77.5°	202.7	183.5	180.6	205.2	228.3
80°	169.2	156.0	158.4	183.5	195.8
82.5°	128.9	125.0	125.5	156.9	159.4
85°	89.5	88.6	86.6	117.6	112.7
87.5°	45.3	46.2	45.8	66.9	60.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)