

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: P293752

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5052.0 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

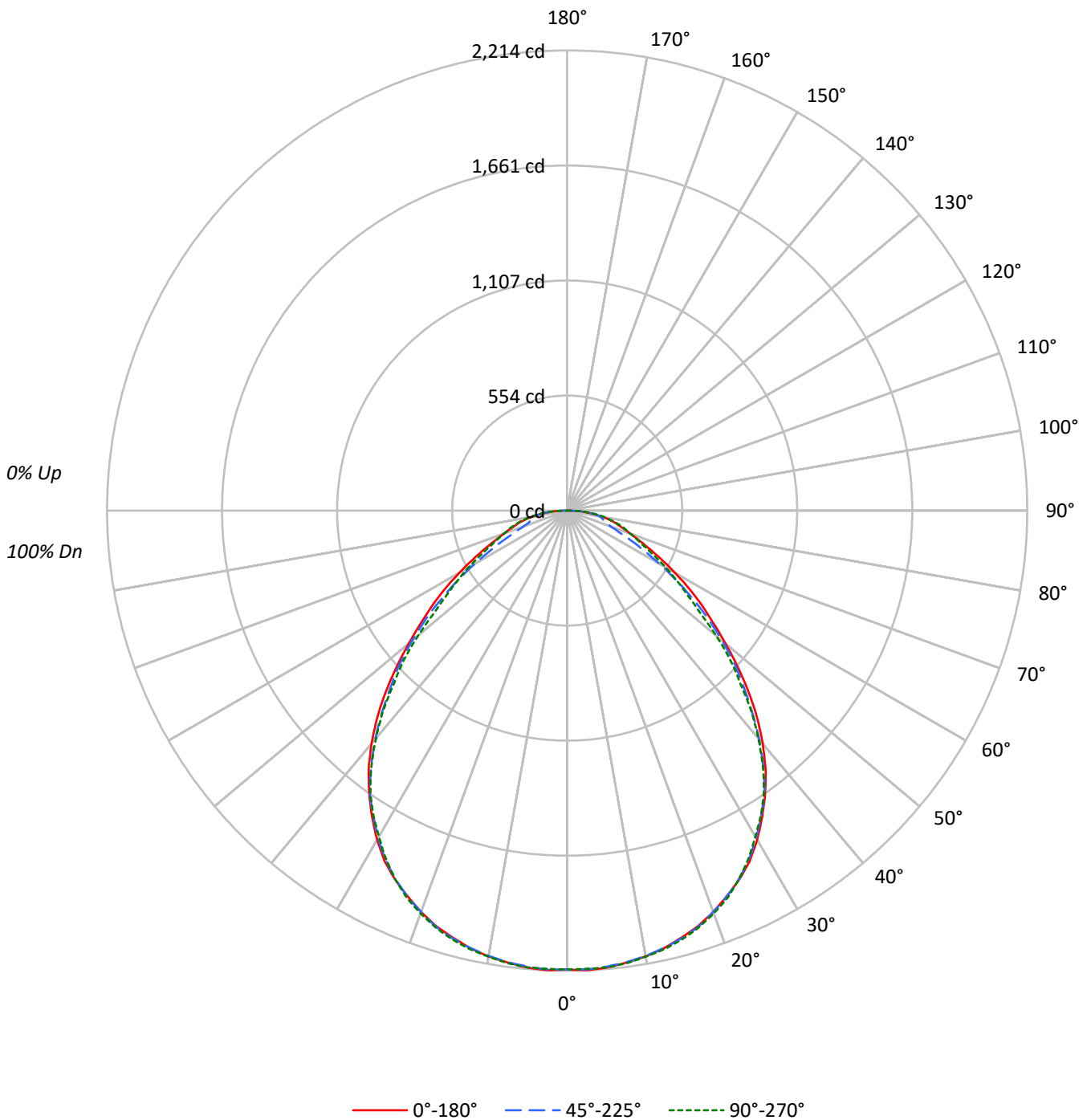
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	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	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2970	2970	2970
5°	2981	2974	2979
10°	2976	2972	2977
15°	2962	2967	2975
20°	2942	2942	2953
25°	2909	2903	2905
30°	2841	2826	2813
35°	2729	2721	2711
40°	2571	2524	2513
45°	2351	2287	2245
50°	2079	2037	1958
55°	1849	1723	1657
60°	1610	1379	1478
65°	1390	1069	1307
70°	1268	875	1265
75°	1278	943	1344
80°	1331	1227	1416
85°	1386	1460	1570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	4.1
10°-20°	600.6	11.9
20°-30°	899.0	17.8
30°-40°	1027.2	20.3
40°-50°	928.7	18.4
50°-60°	668.2	13.2
60°-70°	387.3	7.7
70°-80°	229.8	4.5
80°-90°	101.8	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°	1709.0	33.8
0°-40°	2736.2	54.2
0°-60°	4333.1	85.8
0°-90°	5052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2207	2204	2202	2199	2206	210
15°	2126	2130	2130	2128	2136	600
25°	1959	1957	1955	1951	1957	901
35°	1661	1654	1657	1636	1650	1036
45°	1236	1214	1202	1191	1180	949
55°	788	773	734	716	706	705
65°	437	388	336	375	411	441
75°	246	206	181	224	258	260
85°	90	97	95	109	102	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2207.5	2207.5	2207.5	2207.5	2207.5
2.5°	2213.9	2206.0	2209.9	2207.5	2206.8
5°	2206.8	2203.6	2202.0	2198.9	2206.0
7.5°	2192.6	2190.2	2191.0	2191.8	2196.5
10°	2178.4	2174.4	2175.2	2176.8	2179.2
12.5°	2156.3	2154.0	2154.7	2156.3	2161.8
15°	2126.4	2130.3	2130.3	2127.9	2135.8
17.5°	2096.4	2095.6	2099.6	2092.5	2103.5
20°	2054.7	2055.4	2054.7	2055.4	2062.5
22.5°	2007.4	2011.3	2008.9	2008.9	2016.8
25°	1959.3	1956.9	1955.3	1951.4	1956.9
27.5°	1901.8	1897.0	1893.1	1885.2	1889.1
30°	1828.5	1829.2	1819.0	1811.9	1810.3
32.5°	1746.5	1746.5	1737.0	1731.5	1736.2
35°	1661.4	1653.5	1656.6	1636.2	1650.3
37.5°	1569.2	1556.6	1549.5	1542.4	1547.1
40°	1463.6	1447.0	1436.8	1422.6	1430.5
42.5°	1352.4	1331.9	1319.3	1309.1	1312.2
45°	1235.8	1214.5	1201.9	1190.9	1179.8
47.5°	1112.8	1099.4	1093.1	1078.9	1066.3
50°	993.0	988.3	973.3	961.5	935.5
52.5°	883.5	879.6	855.9	836.2	803.1
55°	788.1	773.2	734.5	715.6	706.2
57.5°	691.2	666.8	620.3	617.9	624.2
60°	598.2	568.2	512.3	524.9	549.3
62.5°	513.9	468.9	415.3	445.3	474.5
65°	436.6	387.8	335.7	375.1	410.6
67.5°	372.8	323.9	270.3	323.1	364.1
70°	322.3	272.7	222.3	282.9	321.6
72.5°	280.6	235.7	193.9	251.4	291.6
75°	245.9	205.7	181.3	223.8	258.5
77.5°	211.2	178.9	173.4	199.4	220.7
80°	171.8	156.8	158.4	175.0	182.8
82.5°	128.5	129.3	133.2	146.6	143.4
85°	89.8	96.9	94.6	108.8	101.7
87.5°	49.7	54.4	51.2	62.3	56.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)