

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: P293876

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293876
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-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4402.0 lumens
Efficiency: N/A
Efficacy: 131.5 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

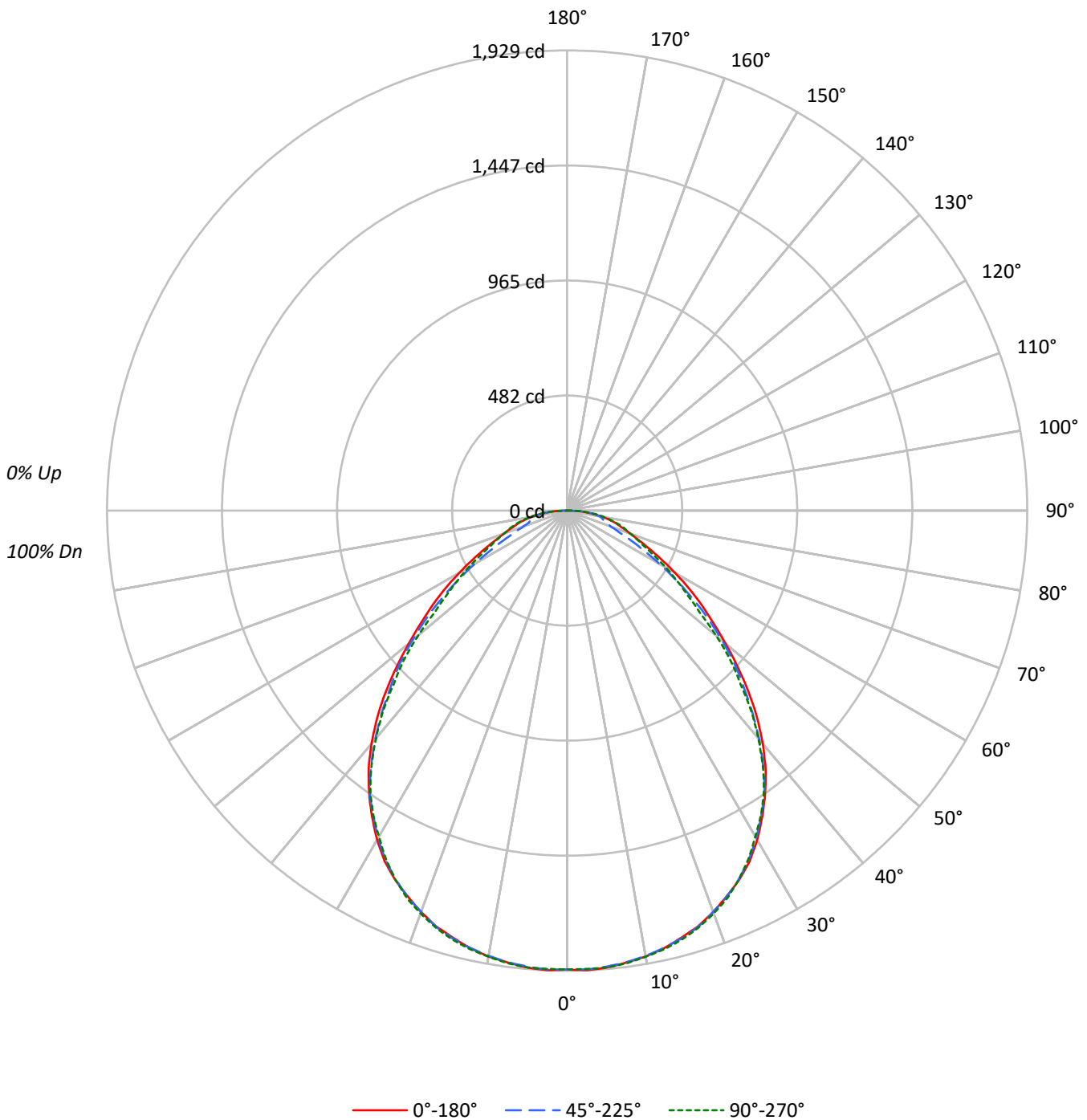
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2588	2588	2588
5°	2597	2591	2596
10°	2593	2590	2594
15°	2581	2586	2592
20°	2563	2563	2573
25°	2534	2529	2531
30°	2475	2463	2451
35°	2378	2371	2362
40°	2240	2199	2189
45°	2049	1993	1956
50°	1811	1775	1706
55°	1611	1501	1443
60°	1403	1201	1288
65°	1211	931	1139
70°	1105	762	1102
75°	1114	821	1171
80°	1160	1069	1234
85°	1209	1272	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	4.1
10°-20°	523.3	11.9
20°-30°	783.3	17.8
30°-40°	895.1	20.3
40°-50°	809.2	18.4
50°-60°	582.2	13.2
60°-70°	337.5	7.7
70°-80°	200.2	4.5
80°-90°	88.7	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°	1489.1	33.8
0°-40°	2384.2	54.2
0°-60°	3775.6	85.8
0°-90°	4402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1923	1920	1919	1916	1922	183
15°	1853	1856	1856	1854	1861	523
25°	1707	1705	1704	1700	1705	785
35°	1448	1441	1444	1426	1438	902
45°	1077	1058	1047	1038	1028	827
55°	687	674	640	624	615	614
65°	380	338	292	327	358	384
75°	214	179	158	195	225	226
85°	78	84	82	95	89	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1923.5	1923.5	1923.5	1923.5	1923.5
2.5°	1929.0	1922.1	1925.6	1923.5	1922.8
5°	1922.8	1920.1	1918.7	1916.0	1922.1
7.5°	1910.5	1908.4	1909.1	1909.8	1913.9
10°	1898.1	1894.7	1895.4	1896.7	1898.8
12.5°	1878.9	1876.8	1877.5	1878.9	1883.7
15°	1852.8	1856.2	1856.2	1854.2	1861.0
17.5°	1826.7	1826.0	1829.4	1823.3	1832.9
20°	1790.3	1791.0	1790.3	1791.0	1797.2
22.5°	1749.1	1752.5	1750.5	1750.5	1757.3
25°	1707.2	1705.1	1703.8	1700.3	1705.1
27.5°	1657.1	1653.0	1649.5	1642.6	1646.1
30°	1593.2	1593.9	1585.0	1578.8	1577.4
32.5°	1521.8	1521.8	1513.5	1508.7	1512.9
35°	1447.6	1440.8	1443.5	1425.6	1438.0
37.5°	1367.3	1356.3	1350.1	1343.9	1348.0
40°	1275.3	1260.8	1251.9	1239.5	1246.4
42.5°	1178.4	1160.6	1149.6	1140.7	1143.4
45°	1076.8	1058.2	1047.3	1037.6	1028.0
47.5°	969.7	958.0	952.5	940.1	929.1
50°	865.3	861.2	848.1	837.8	815.1
52.5°	769.8	766.4	745.8	728.6	699.8
55°	686.7	673.7	640.0	623.5	615.3
57.5°	602.3	581.0	540.5	538.4	543.9
60°	521.2	495.1	446.4	457.4	478.6
62.5°	447.7	408.6	361.9	388.0	413.4
65°	380.4	337.9	292.5	326.9	357.8
67.5°	324.8	282.2	235.5	281.6	317.3
70°	280.9	237.6	193.7	246.5	280.2
72.5°	244.5	205.3	168.9	219.1	254.1
75°	214.3	179.2	157.9	195.0	225.2
77.5°	184.0	155.9	151.1	173.7	192.3
80°	149.7	136.7	138.0	152.5	159.3
82.5°	111.9	112.6	116.1	127.7	125.0
85°	78.3	84.5	82.4	94.8	88.6
87.5°	43.3	47.4	44.6	54.3	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)