

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: P293874

Luminaire Tested: **24GR-LD5-48-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293874
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4157.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

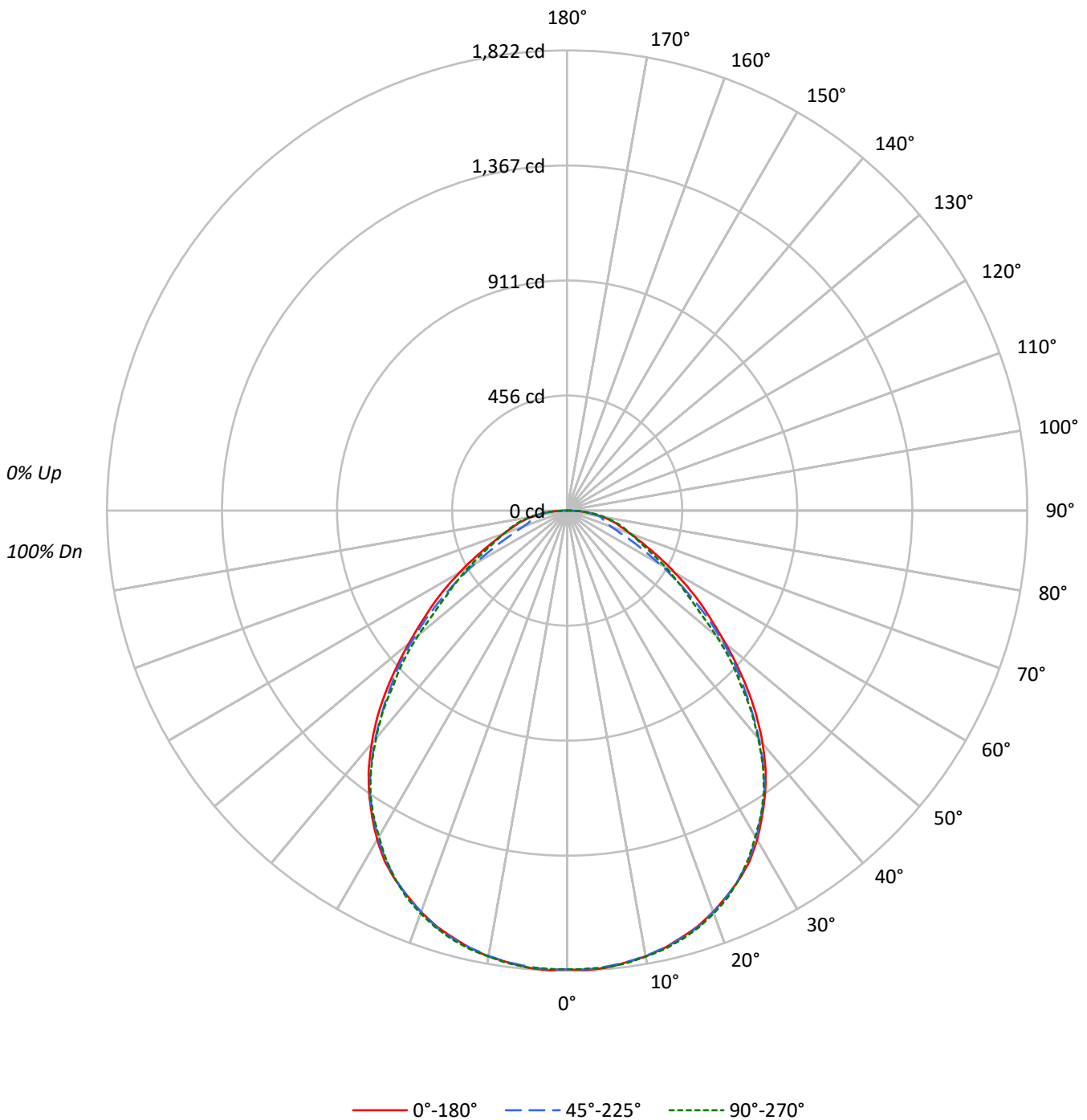
Input Watts (W): 32.922
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2444	2444	2444
5°	2452	2447	2452
10°	2449	2445	2450
15°	2437	2442	2448
20°	2421	2421	2430
25°	2393	2389	2390
30°	2337	2325	2314
35°	2246	2239	2231
40°	2115	2076	2067
45°	1935	1882	1847
50°	1710	1676	1611
55°	1521	1418	1363
60°	1324	1134	1216
65°	1144	880	1076
70°	1043	720	1041
75°	1052	776	1106
80°	1096	1010	1166
85°	1141	1201	1292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	4.1
10°-20°	494.2	11.9
20°-30°	739.7	17.8
30°-40°	845.3	20.3
40°-50°	764.2	18.4
50°-60°	549.8	13.2
60°-70°	318.7	7.7
70°-80°	189.1	4.5
80°-90°	83.7	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°	1406.2	33.8
0°-40°	2251.5	54.2
0°-60°	3565.5	85.8
0°-90°	4157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1816	1813	1812	1809	1815	172
15°	1750	1753	1753	1751	1758	494
25°	1612	1610	1609	1606	1610	741
35°	1367	1361	1363	1346	1358	852
45°	1017	999	989	980	971	781
55°	648	636	604	589	581	580
65°	359	319	276	309	338	363
75°	202	169	149	184	213	214
85°	74	80	78	90	84	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.5	1816.5	1816.5	1816.5	1816.5
2.5°	1821.7	1815.2	1818.4	1816.5	1815.8
5°	1815.8	1813.2	1811.9	1809.3	1815.2
7.5°	1804.1	1802.2	1802.8	1803.5	1807.4
10°	1792.5	1789.2	1789.9	1791.2	1793.1
12.5°	1774.3	1772.4	1773.0	1774.3	1778.9
15°	1749.7	1752.9	1752.9	1751.0	1757.5
17.5°	1725.0	1724.4	1727.6	1721.8	1730.9
20°	1690.7	1691.3	1690.7	1691.3	1697.1
22.5°	1651.7	1655.0	1653.0	1653.0	1659.5
25°	1612.2	1610.2	1608.9	1605.7	1610.2
27.5°	1564.8	1561.0	1557.7	1551.2	1554.5
30°	1504.5	1505.2	1496.8	1490.9	1489.6
32.5°	1437.1	1437.1	1429.3	1424.8	1428.7
35°	1367.1	1360.6	1363.2	1346.3	1358.0
37.5°	1291.2	1280.8	1275.0	1269.1	1273.0
40°	1204.3	1190.7	1182.2	1170.6	1177.0
42.5°	1112.8	1096.0	1085.6	1077.2	1079.8
45°	1016.9	999.3	989.0	979.9	970.8
47.5°	915.7	904.7	899.5	887.8	877.4
50°	817.1	813.2	800.9	791.2	769.8
52.5°	727.0	723.7	704.3	688.1	660.8
55°	648.5	636.2	604.4	588.8	581.1
57.5°	568.7	548.6	510.4	508.4	513.6
60°	492.2	467.6	421.5	431.9	452.0
62.5°	422.8	385.9	341.8	366.4	390.4
65°	359.3	319.1	276.3	308.7	337.9
67.5°	306.7	266.5	222.4	265.9	299.6
70°	265.2	224.4	182.9	232.8	264.6
72.5°	230.9	193.9	159.5	206.9	239.9
75°	202.3	169.3	149.2	184.2	212.7
77.5°	173.8	147.2	142.7	164.1	181.6
80°	141.4	129.1	130.3	144.0	150.5
82.5°	105.7	106.4	109.6	120.6	118.0
85°	73.9	79.8	77.8	89.5	83.7
87.5°	40.9	44.7	42.2	51.2	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)