

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: P293678

Luminaire Tested: **24GR-LD5-38-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293678
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-LD5-38-A125-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4087.0 lumens
Efficiency: N/A
Efficacy: 153.7 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

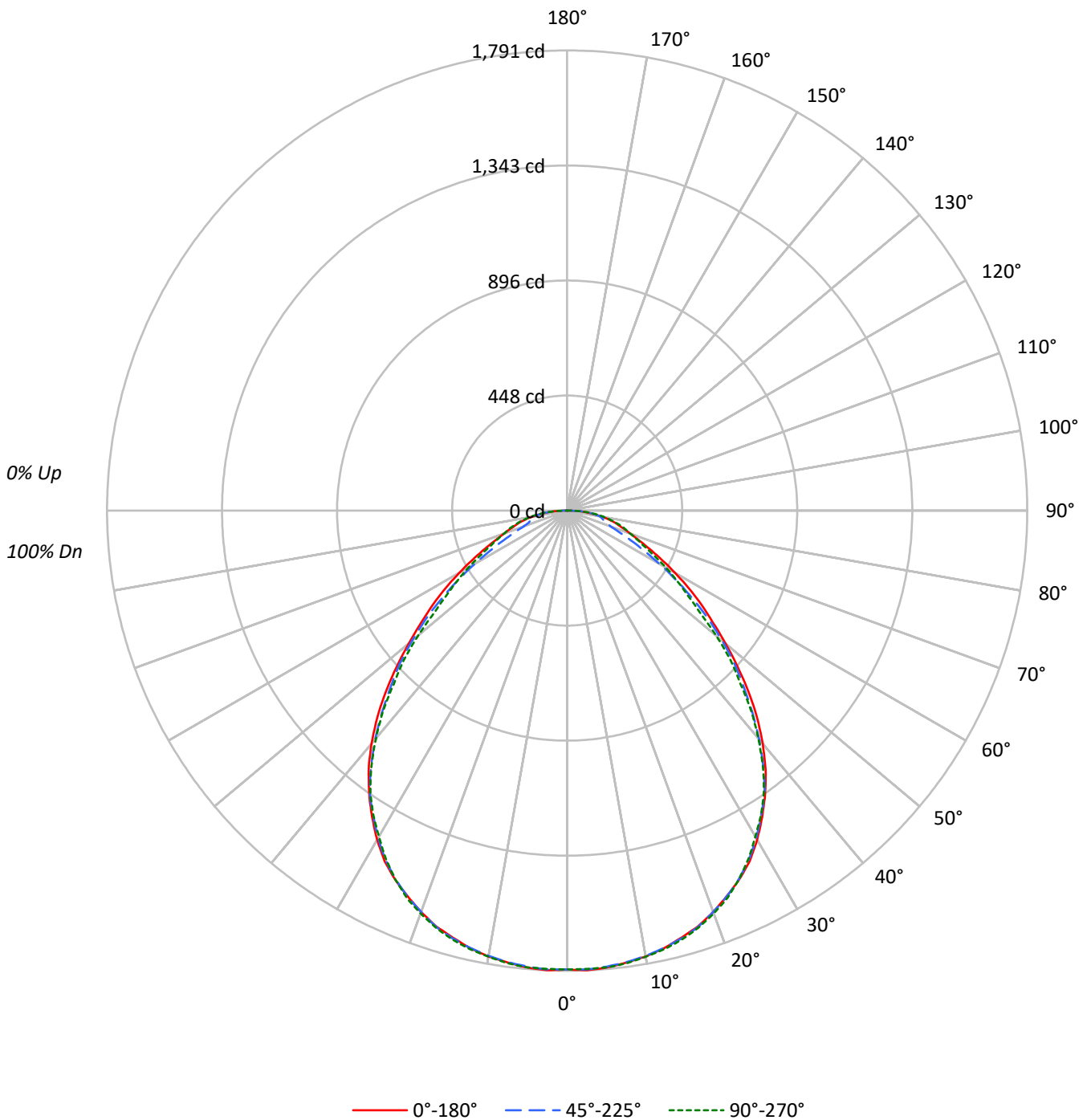
Input Watts (W): 26.598
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2403	2403	2403
5°	2411	2406	2410
10°	2408	2404	2409
15°	2396	2401	2407
20°	2380	2380	2389
25°	2353	2348	2350
30°	2298	2286	2275
35°	2208	2201	2193
40°	2080	2041	2033
45°	1902	1850	1816
50°	1682	1648	1584
55°	1496	1394	1340
60°	1302	1115	1196
65°	1124	865	1058
70°	1026	707	1023
75°	1034	762	1087
80°	1077	993	1146
85°	1122	1181	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	4.1
10°-20°	485.9	11.9
20°-30°	727.3	17.8
30°-40°	831.0	20.3
40°-50°	751.3	18.4
50°-60°	540.5	13.2
60°-70°	313.4	7.7
70°-80°	185.9	4.5
80°-90°	82.3	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°	1382.5	33.8
0°-40°	2213.5	54.2
0°-60°	3505.4	85.8
0°-90°	4087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1785	1783	1781	1779	1785	170
15°	1720	1723	1723	1722	1728	486
25°	1585	1583	1582	1579	1583	729
35°	1344	1338	1340	1324	1335	838
45°	1000	982	972	963	954	768
55°	638	626	594	579	571	570
65°	353	314	272	304	332	357
75°	199	166	147	181	209	210
85°	73	78	76	88	82	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1785.9	1785.9	1785.9	1785.9	1785.9
2.5°	1791.0	1784.6	1787.8	1785.9	1785.2
5°	1785.2	1782.7	1781.4	1778.9	1784.6
7.5°	1773.8	1771.9	1772.5	1773.1	1777.0
10°	1762.3	1759.1	1759.7	1761.0	1762.9
12.5°	1744.4	1742.5	1743.2	1744.4	1748.9
15°	1720.2	1723.4	1723.4	1721.5	1727.9
17.5°	1696.0	1695.3	1698.5	1692.8	1701.7
20°	1662.2	1662.8	1662.2	1662.8	1668.6
22.5°	1623.9	1627.1	1625.2	1625.2	1631.6
25°	1585.0	1583.1	1581.8	1578.7	1583.1
27.5°	1538.5	1534.7	1531.5	1525.1	1528.3
30°	1479.2	1479.8	1471.5	1465.8	1464.5
32.5°	1412.9	1412.9	1405.2	1400.8	1404.6
35°	1344.0	1337.7	1340.2	1323.6	1335.1
37.5°	1269.4	1259.2	1253.5	1247.8	1251.6
40°	1184.0	1170.6	1162.3	1150.8	1157.2
42.5°	1094.1	1077.5	1067.3	1059.0	1061.6
45°	999.7	982.5	972.3	963.4	954.5
47.5°	900.3	889.4	884.3	872.9	862.7
50°	803.4	799.5	787.4	777.9	756.8
52.5°	714.7	711.5	692.4	676.5	649.7
55°	637.6	625.5	594.2	578.9	571.3
57.5°	559.2	539.4	501.8	499.9	505.0
60°	483.9	459.7	414.4	424.6	444.4
62.5°	415.7	379.4	336.0	360.2	383.8
65°	353.2	313.7	271.6	303.5	332.2
67.5°	301.6	262.0	218.7	261.4	294.6
70°	260.8	220.6	179.8	228.9	260.1
72.5°	227.0	190.6	156.8	203.4	235.9
75°	198.9	166.4	146.6	181.1	209.1
77.5°	170.9	144.7	140.3	161.3	178.5
80°	139.0	126.9	128.2	141.5	147.9
82.5°	103.9	104.6	107.8	118.6	116.0
85°	72.7	78.4	76.5	88.0	82.2
87.5°	40.2	44.0	41.4	50.4	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)