

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: P293736

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293736
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4030.0 lumens
Efficiency: N/A
Efficacy: 152.0 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

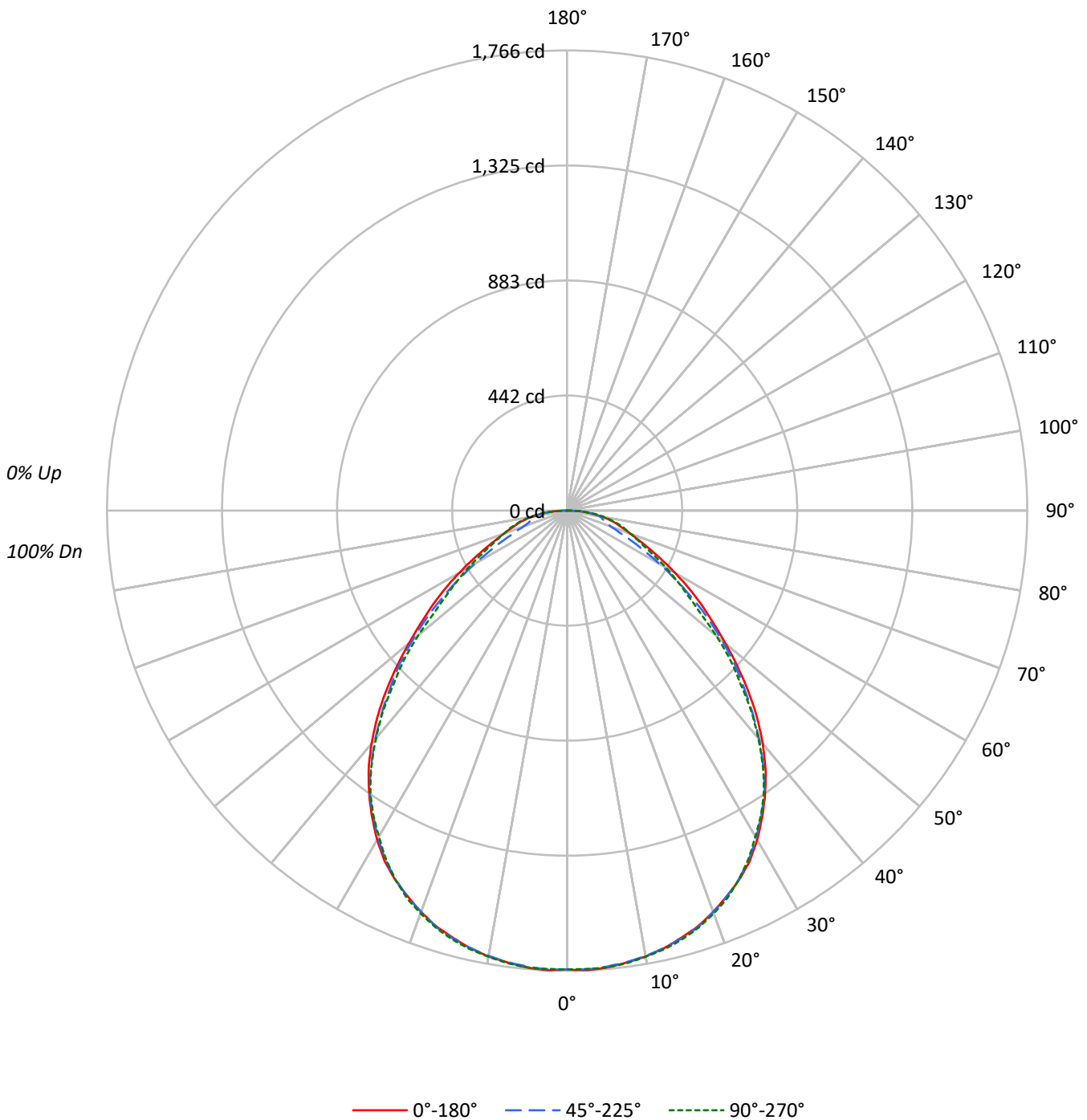
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2369	2369	2369
5°	2378	2373	2377
10°	2374	2371	2375
15°	2363	2367	2373
20°	2347	2347	2356
25°	2320	2316	2317
30°	2266	2254	2244
35°	2177	2171	2162
40°	2051	2013	2004
45°	1876	1824	1791
50°	1658	1625	1562
55°	1475	1374	1321
60°	1284	1100	1179
65°	1109	853	1043
70°	1011	697	1009
75°	1020	752	1072
80°	1062	979	1130
85°	1107	1164	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	4.1
10°-20°	479.1	11.9
20°-30°	717.1	17.8
30°-40°	819.4	20.3
40°-50°	740.9	18.4
50°-60°	533.0	13.2
60°-70°	309.0	7.7
70°-80°	183.3	4.5
80°-90°	81.2	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°	1363.2	33.8
0°-40°	2182.7	54.2
0°-60°	3456.5	85.8
0°-90°	4030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1760	1758	1757	1754	1760	167
15°	1696	1699	1699	1698	1704	479
25°	1563	1561	1560	1557	1561	719
35°	1325	1319	1322	1305	1316	826
45°	986	969	959	950	941	757
55°	629	617	586	571	563	562
65°	348	309	268	299	328	352
75°	196	164	145	178	206	207
85°	72	77	75	87	81	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.0	1761.0	1761.0	1761.0	1761.0
2.5°	1766.0	1759.7	1762.9	1761.0	1760.3
5°	1760.3	1757.8	1756.6	1754.1	1759.7
7.5°	1749.0	1747.1	1747.8	1748.4	1752.2
10°	1737.7	1734.6	1735.2	1736.5	1738.3
12.5°	1720.1	1718.2	1718.8	1720.1	1724.5
15°	1696.2	1699.4	1699.4	1697.5	1703.8
17.5°	1672.3	1671.7	1674.8	1669.2	1678.0
20°	1639.0	1639.6	1639.0	1639.6	1645.3
22.5°	1601.3	1604.4	1602.5	1602.5	1608.8
25°	1562.9	1561.0	1559.8	1556.6	1561.0
27.5°	1517.0	1513.3	1510.1	1503.8	1507.0
30°	1458.6	1459.2	1451.0	1445.4	1444.1
32.5°	1393.2	1393.2	1385.6	1381.2	1385.0
35°	1325.3	1319.0	1321.5	1305.2	1316.5
37.5°	1251.7	1241.7	1236.0	1230.4	1234.1
40°	1167.5	1154.3	1146.1	1134.8	1141.1
42.5°	1078.8	1062.5	1052.4	1044.3	1046.8
45°	985.8	968.8	958.8	950.0	941.2
47.5°	887.7	877.0	872.0	860.7	850.6
50°	792.2	788.4	776.4	767.0	746.3
52.5°	704.8	701.6	682.8	667.0	640.6
55°	628.7	616.7	585.9	570.9	563.3
57.5°	551.4	531.9	494.8	492.9	497.9
60°	477.2	453.3	408.7	418.7	438.2
62.5°	409.9	374.1	331.3	355.2	378.5
65°	348.3	309.3	267.8	299.3	327.5
67.5°	297.4	258.4	215.6	257.8	290.5
70°	257.1	217.5	177.3	225.7	256.5
72.5°	223.8	188.0	154.7	200.6	232.6
75°	196.2	164.1	144.6	178.5	206.2
77.5°	168.5	142.7	138.3	159.1	176.0
80°	137.1	125.1	126.4	139.6	145.9
82.5°	102.5	103.1	106.2	116.9	114.4
85°	71.7	77.3	75.4	86.8	81.1
87.5°	39.6	43.4	40.9	49.7	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)