

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: P293741

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293741
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-LD5-42-A125-UNV-L82765-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: 4266.0 lumens
Efficiency: N/A
Efficacy: 149.4 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

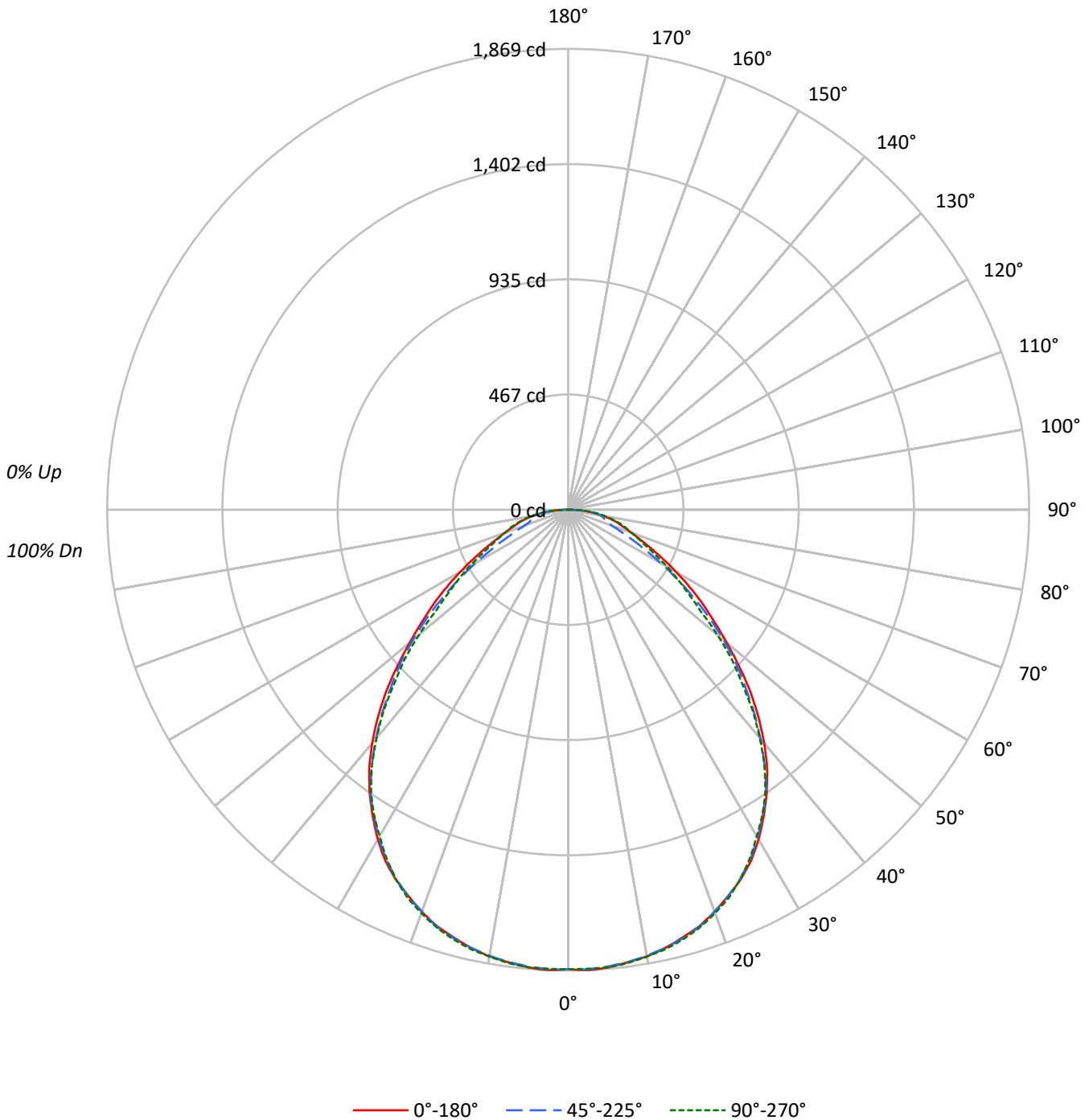
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2508	2508	2508
5°	2517	2511	2516
10°	2513	2510	2514
15°	2501	2506	2512
20°	2484	2484	2494
25°	2456	2451	2453
30°	2399	2386	2375
35°	2304	2298	2289
40°	2171	2131	2122
45°	1986	1931	1896
50°	1755	1720	1654
55°	1561	1455	1399
60°	1359	1164	1248
65°	1174	903	1104
70°	1071	738	1068
75°	1079	796	1135
80°	1124	1037	1196
85°	1172	1233	1326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	4.1
10°-20°	507.1	11.9
20°-30°	759.1	17.8
30°-40°	867.4	20.3
40°-50°	784.2	18.4
50°-60°	564.2	13.2
60°-70°	327.1	7.7
70°-80°	194.0	4.5
80°-90°	85.9	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°	1443.1	33.8
0°-40°	2310.5	54.2
0°-60°	3659.0	85.8
0°-90°	4266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1863	1861	1859	1857	1863	177
15°	1796	1799	1799	1797	1804	507
25°	1654	1652	1651	1648	1652	761
35°	1403	1396	1399	1382	1394	875
45°	1044	1026	1015	1006	996	802
55°	666	653	620	604	596	595
65°	369	327	284	317	347	372
75°	208	174	153	189	218	219
85°	76	82	80	92	86	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1869.4	1862.8	1866.1	1864.1	1863.4
5°	1863.4	1860.8	1859.4	1856.8	1862.8
7.5°	1851.4	1849.5	1850.1	1850.8	1854.8
10°	1839.5	1836.1	1836.8	1838.1	1840.1
12.5°	1820.8	1818.8	1819.5	1820.8	1825.5
15°	1795.5	1798.9	1798.9	1796.9	1803.5
17.5°	1770.3	1769.6	1772.9	1766.9	1776.2
20°	1735.0	1735.7	1735.0	1735.7	1741.6
22.5°	1695.1	1698.4	1696.4	1696.4	1703.0
25°	1654.5	1652.5	1651.1	1647.8	1652.5
27.5°	1605.9	1601.9	1598.6	1591.9	1595.2
30°	1544.0	1544.6	1536.0	1530.0	1528.7
32.5°	1474.8	1474.8	1466.8	1462.1	1466.1
35°	1402.9	1396.2	1398.9	1381.6	1393.6
37.5°	1325.0	1314.4	1308.4	1302.4	1306.4
40°	1235.9	1221.9	1213.2	1201.2	1207.9
42.5°	1142.0	1124.7	1114.1	1105.4	1108.1
45°	1043.5	1025.6	1014.9	1005.6	996.3
47.5°	939.7	928.4	923.1	911.1	900.4
50°	838.5	834.5	821.9	811.9	790.0
52.5°	746.0	742.7	722.7	706.1	678.2
55°	665.5	652.9	620.3	604.3	596.3
57.5°	583.7	563.0	523.8	521.8	527.1
60°	505.1	479.8	432.6	443.2	463.9
62.5°	433.9	396.0	350.7	376.0	400.6
65°	368.7	327.4	283.5	316.8	346.7
67.5°	314.8	273.5	228.3	272.9	307.5
70°	272.2	230.3	187.7	238.9	271.5
72.5°	236.9	199.0	163.7	212.3	246.2
75°	207.6	173.7	153.1	189.0	218.3
77.5°	178.4	151.1	146.4	168.4	186.3
80°	145.1	132.4	133.8	147.7	154.4
82.5°	108.5	109.1	112.5	123.8	121.1
85°	75.9	81.9	79.9	91.8	85.9
87.5°	41.9	45.9	43.3	52.6	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)