

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: P293238

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-F125-UNV-L82765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4316.0 lumens  
Efficiency: N/A  
Efficacy: 150.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

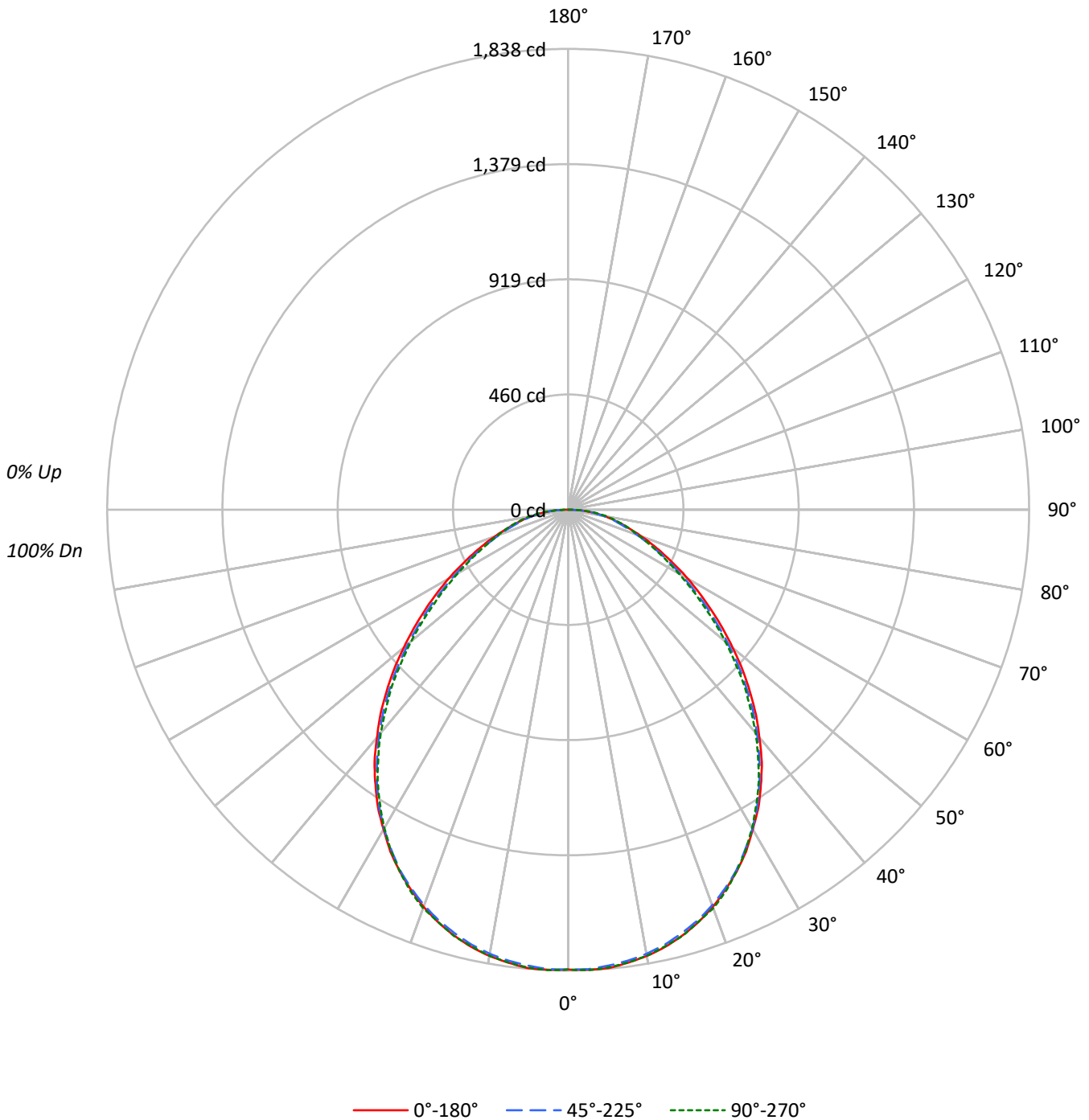
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2468	2468	2468
5°	2479	2466	2476
10°	2469	2457	2468
15°	2450	2437	2452
20°	2414	2404	2422
25°	2362	2356	2361
30°	2287	2283	2278
35°	2201	2184	2175
40°	2083	2059	2043
45°	1949	1913	1889
50°	1791	1743	1713
55°	1633	1573	1527
60°	1483	1403	1367
65°	1336	1261	1239
70°	1223	1144	1176
75°	1143	1091	1171
80°	1134	1113	1223
85°	1156	1167	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.6	4.0
10°-20°	493.5	11.4
20°-30°	729.1	16.9
30°-40°	828.9	19.2
40°-50°	774.1	17.9
50°-60°	602.0	13.9
60°-70°	399.5	9.3
70°-80°	231.2	5.4
80°-90°	84.1	1.9
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°	1396.3	32.4
0°-40°	2225.2	51.6
0°-60°	3601.3	83.4
0°-90°	4316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1834	1834	1834	1834	1834	
5°	1836	1826	1826	1829	1833	174
15°	1759	1750	1749	1749	1760	495
25°	1591	1584	1587	1583	1590	731
35°	1340	1333	1330	1320	1324	836
45°	1024	1016	1005	992	993	789
55°	696	686	671	653	651	624
65°	420	407	396	389	389	419
75°	220	214	210	219	225	235
85°	75	74	76	86	86	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1834.3	1834.3	1834.3	1834.3	1834.3
2.5°	1837.0	1831.6	1834.3	1832.3	1838.3
5°	1835.6	1826.2	1825.5	1828.9	1833.0
7.5°	1822.8	1812.7	1814.7	1814.7	1821.5
10°	1807.3	1797.2	1798.5	1799.2	1806.6
12.5°	1786.4	1776.3	1777.0	1776.3	1783.7
15°	1758.7	1750.0	1749.3	1748.6	1760.1
17.5°	1725.0	1712.9	1716.9	1717.6	1723.7
20°	1685.9	1676.4	1679.1	1678.5	1691.3
22.5°	1639.3	1632.6	1634.6	1633.3	1645.4
25°	1590.8	1584.0	1586.7	1583.3	1590.1
27.5°	1536.1	1531.4	1528.7	1526.7	1531.4
30°	1472.0	1469.3	1469.3	1460.6	1466.0
32.5°	1411.3	1402.5	1402.5	1399.2	1395.8
35°	1339.8	1333.1	1329.7	1320.2	1324.3
37.5°	1268.3	1252.8	1251.4	1244.0	1244.0
40°	1186.0	1177.2	1172.5	1164.4	1163.0
42.5°	1107.7	1099.0	1090.9	1077.4	1074.7
45°	1024.1	1016.0	1005.2	992.4	993.0
47.5°	941.1	929.6	919.5	904.0	902.0
50°	855.4	847.3	832.5	819.0	818.3
52.5°	775.1	762.3	748.8	732.6	732.6
55°	696.2	686.1	670.6	653.0	651.0
57.5°	620.7	611.2	593.7	580.9	577.5
60°	551.2	537.7	521.5	510.7	508.0
62.5°	481.7	469.5	457.4	446.6	445.9
65°	419.6	406.8	396.0	388.6	389.3
67.5°	363.6	352.8	340.7	338.7	339.3
70°	311.0	299.5	290.8	295.5	298.9
72.5°	261.1	255.0	248.9	255.7	260.4
75°	219.9	214.5	209.8	219.3	225.3
77.5°	182.1	178.1	177.4	185.5	190.9
80°	146.4	141.7	143.7	153.1	157.9
82.5°	111.3	107.9	108.6	120.1	123.5
85°	74.9	73.5	75.6	85.7	86.4
87.5°	39.8	39.8	41.2	47.2	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)