

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: P293239

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293239  
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-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4359.0 lumens  
Efficiency: N/A  
Efficacy: 151.7 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

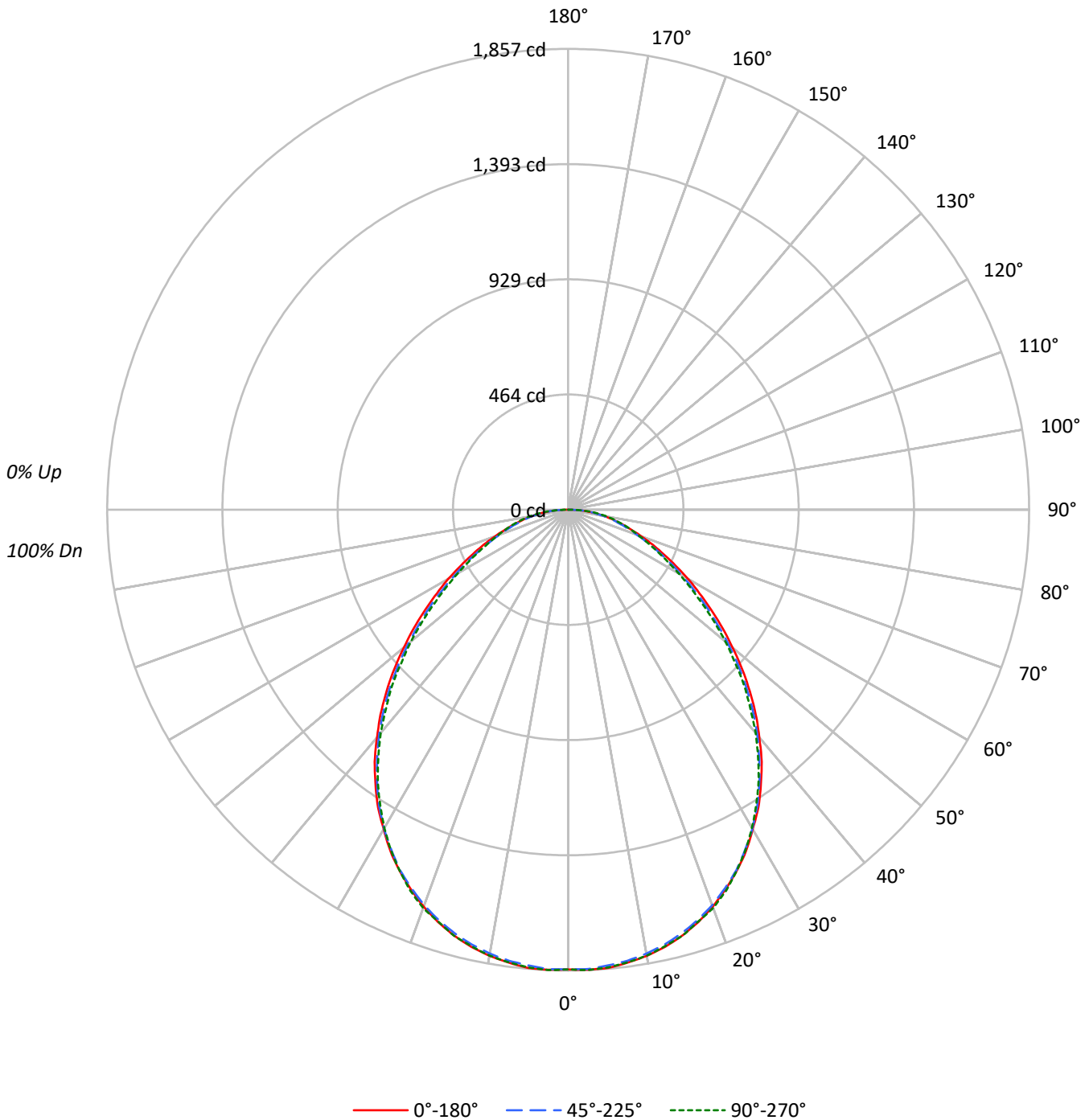
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

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

	0°	45°	90°
0°	2493	2493	2493
5°	2504	2490	2500
10°	2494	2482	2493
15°	2474	2461	2476
20°	2438	2428	2446
25°	2385	2379	2384
30°	2310	2306	2300
35°	2223	2206	2197
40°	2104	2080	2063
45°	1968	1932	1908
50°	1808	1760	1730
55°	1649	1589	1542
60°	1498	1417	1381
65°	1349	1273	1252
70°	1236	1155	1187
75°	1155	1102	1183
80°	1146	1124	1235
85°	1167	1178	1346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	4.0
10°-20°	498.5	11.4
20°-30°	736.4	16.9
30°-40°	837.2	19.2
40°-50°	781.8	17.9
50°-60°	608.0	13.9
60°-70°	403.4	9.3
70°-80°	233.5	5.4
80°-90°	84.9	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°	1410.2	32.4
0°-40°	2247.4	51.6
0°-60°	3637.2	83.4
0°-90°	4359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4359.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1853	1853	1853	1853	1853	
5°	1854	1844	1844	1847	1851	176
15°	1776	1767	1767	1766	1778	500
25°	1607	1600	1602	1599	1606	739
35°	1353	1346	1343	1333	1338	845
45°	1034	1026	1015	1002	1003	797
55°	703	693	677	660	658	631
65°	424	411	400	392	393	424
75°	222	217	212	221	228	238
85°	76	74	76	86	87	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1855.3	1849.8	1852.6	1850.5	1856.7
5°	1853.9	1844.4	1843.7	1847.1	1851.2
7.5°	1841.0	1830.8	1832.8	1832.8	1839.6
10°	1825.3	1815.1	1816.5	1817.1	1824.6
12.5°	1804.2	1794.0	1794.7	1794.0	1801.5
15°	1776.3	1767.4	1766.7	1766.0	1777.6
17.5°	1742.2	1729.9	1734.0	1734.7	1740.8
20°	1702.7	1693.1	1695.9	1695.2	1708.1
22.5°	1655.7	1648.9	1650.9	1649.5	1661.8
25°	1606.6	1599.8	1602.5	1599.1	1605.9
27.5°	1551.4	1546.7	1543.9	1541.9	1546.7
30°	1486.7	1484.0	1484.0	1475.1	1480.6
32.5°	1425.4	1416.5	1416.5	1413.1	1409.7
35°	1353.1	1346.3	1342.9	1333.4	1337.5
37.5°	1280.9	1265.3	1263.9	1256.4	1256.4
40°	1197.8	1188.9	1184.2	1176.0	1174.6
42.5°	1118.8	1109.9	1101.7	1088.1	1085.4
45°	1034.3	1026.1	1015.2	1002.3	1002.9
47.5°	950.5	938.9	928.7	913.0	911.0
50°	863.9	855.8	840.8	827.2	826.5
52.5°	782.9	769.9	756.3	739.9	739.9
55°	703.1	692.9	677.3	659.5	657.5
57.5°	626.8	617.3	599.6	586.6	583.2
60°	556.7	543.0	526.7	515.8	513.1
62.5°	486.5	474.2	462.0	451.0	450.4
65°	423.8	410.9	399.9	392.5	393.1
67.5°	367.2	356.3	344.1	342.0	342.7
70°	314.1	302.5	293.7	298.4	301.8
72.5°	263.7	257.5	251.4	258.2	263.0
75°	222.1	216.7	211.9	221.4	227.6
77.5°	184.0	179.9	179.2	187.4	192.8
80°	147.9	143.1	145.1	154.7	159.4
82.5°	112.4	109.0	109.7	121.3	124.7
85°	75.6	74.3	76.3	86.5	87.2
87.5°	40.2	40.2	41.6	47.7	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)