

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: P293362

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293362  
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-L92765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3702.0 lumens  
Efficiency: N/A  
Efficacy: 130.5 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

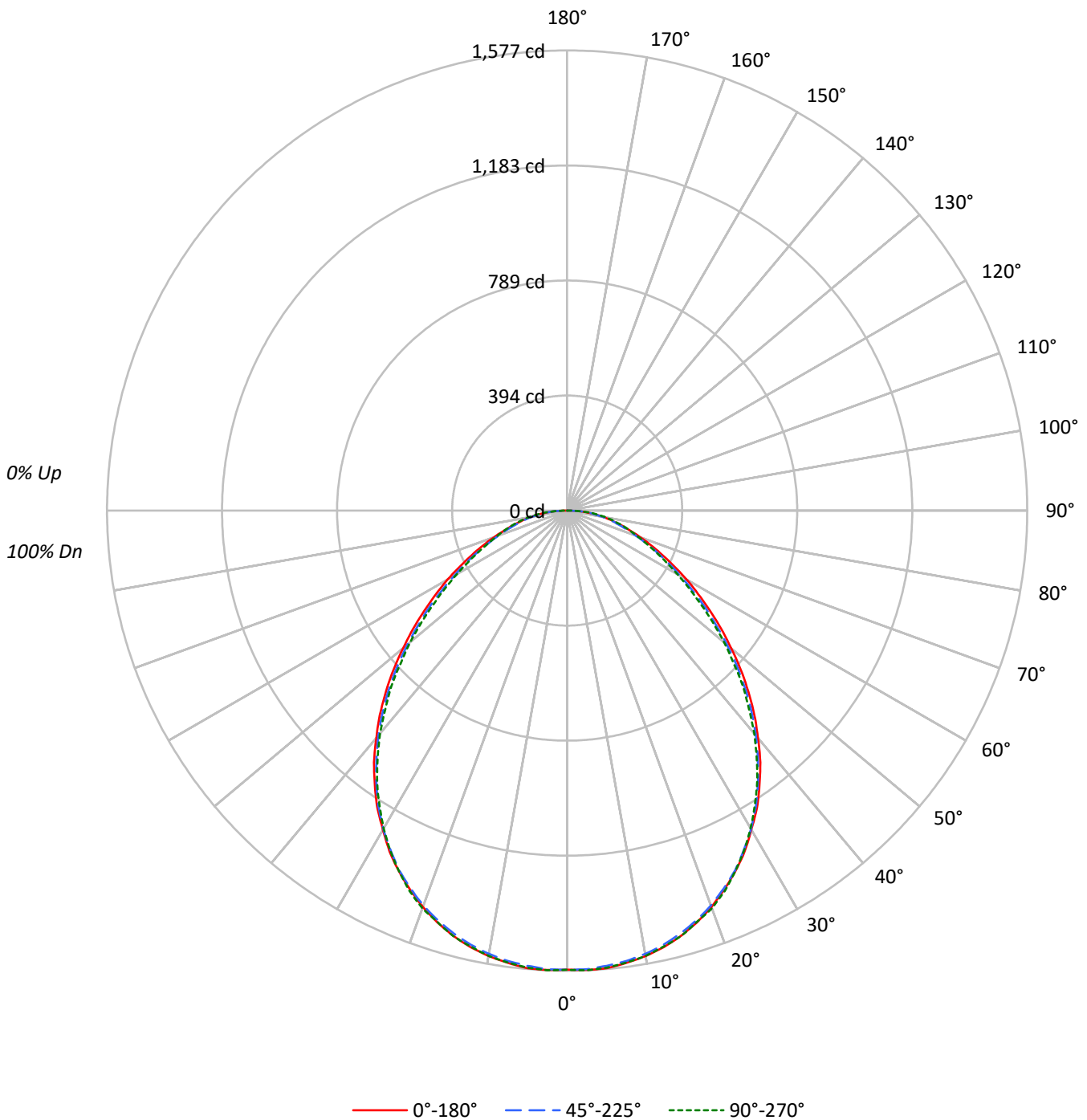
Input Watts (W): 28.365  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2117	2117	2117
5°	2127	2115	2123
10°	2118	2108	2117
15°	2101	2090	2103
20°	2070	2062	2077
25°	2026	2021	2025
30°	1962	1958	1954
35°	1888	1873	1866
40°	1787	1766	1752
45°	1671	1641	1621
50°	1536	1495	1469
55°	1401	1349	1310
60°	1272	1204	1172
65°	1146	1082	1063
70°	1050	981	1008
75°	980	936	1005
80°	973	955	1049
85°	991	1000	1144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	4.0
10°-20°	423.3	11.4
20°-30°	625.4	16.9
30°-40°	711.0	19.2
40°-50°	664.0	17.9
50°-60°	516.4	13.9
60°-70°	342.6	9.3
70°-80°	198.3	5.4
80°-90°	72.1	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°	1197.6	32.4
0°-40°	1908.6	51.6
0°-60°	3089.0	83.4
0°-90°	3702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1574	1566	1566	1569	1572	149
15°	1508	1501	1500	1500	1510	425
25°	1364	1359	1361	1358	1364	627
35°	1149	1143	1140	1132	1136	717
45°	878	871	862	851	852	677
55°	597	588	575	560	558	536
65°	360	349	340	333	334	360
75°	189	184	180	188	193	202
85°	64	63	65	74	74	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.3	1573.3	1573.3	1573.3	1573.3
2.5°	1575.7	1571.0	1573.3	1571.6	1576.8
5°	1574.5	1566.4	1565.8	1568.7	1572.2
7.5°	1563.5	1554.8	1556.6	1556.6	1562.4
10°	1550.2	1541.5	1542.7	1543.3	1549.6
12.5°	1532.3	1523.6	1524.2	1523.6	1530.0
15°	1508.5	1501.0	1500.4	1499.9	1509.7
17.5°	1479.6	1469.2	1472.7	1473.2	1478.5
20°	1446.0	1437.9	1440.3	1439.7	1450.7
22.5°	1406.1	1400.3	1402.1	1400.9	1411.3
25°	1364.5	1358.7	1361.0	1358.1	1363.9
27.5°	1317.6	1313.5	1311.2	1309.5	1313.5
30°	1262.6	1260.3	1260.3	1252.8	1257.4
32.5°	1210.5	1203.0	1203.0	1200.1	1197.2
35°	1149.2	1143.4	1140.5	1132.4	1135.9
37.5°	1087.9	1074.6	1073.4	1067.0	1067.0
40°	1017.3	1009.7	1005.7	998.8	997.6
42.5°	950.1	942.6	935.7	924.1	921.8
45°	878.4	871.4	862.2	851.2	851.8
47.5°	807.2	797.4	788.7	775.4	773.7
50°	733.7	726.8	714.1	702.5	701.9
52.5°	664.9	653.9	642.3	628.4	628.4
55°	597.2	588.5	575.2	560.1	558.4
57.5°	532.4	524.3	509.2	498.2	495.3
60°	472.8	461.2	447.3	438.0	435.7
62.5°	413.2	402.7	392.3	383.1	382.5
65°	359.9	348.9	339.7	333.3	333.9
67.5°	311.9	302.6	292.2	290.5	291.1
70°	266.8	256.9	249.4	253.4	256.3
72.5°	223.9	218.7	213.5	219.3	223.4
75°	188.6	184.0	180.0	188.1	193.3
77.5°	156.2	152.8	152.2	159.1	163.8
80°	125.6	121.5	123.3	131.4	135.4
82.5°	95.5	92.6	93.2	103.0	105.9
85°	64.2	63.1	64.8	73.5	74.1
87.5°	34.1	34.1	35.3	40.5	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)