

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: P293402

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293402  
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-LD5-72-F125-UNV-L92765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6816.0 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

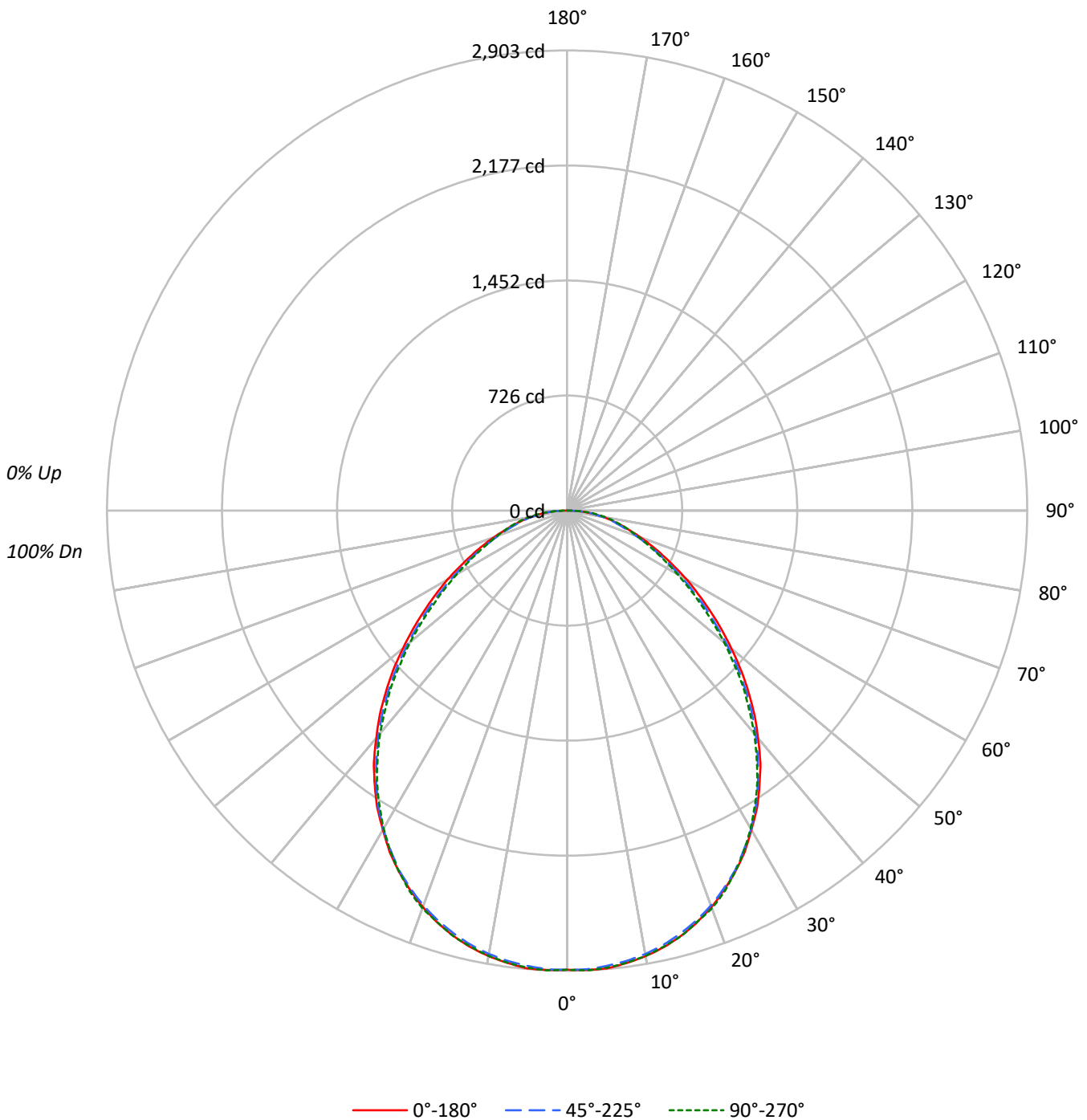
Input Watts (W): 54.126  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	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°	3898	3898	3898
5°	3915	3894	3910
10°	3900	3881	3898
15°	3869	3848	3872
20°	3812	3797	3824
25°	3730	3720	3728
30°	3612	3605	3597
35°	3475	3449	3435
40°	3290	3252	3226
45°	3077	3021	2984
50°	2828	2752	2705
55°	2579	2484	2412
60°	2342	2216	2159
65°	2110	1991	1957
70°	1932	1806	1857
75°	1805	1722	1850
80°	1791	1758	1932
85°	1826	1842	2106



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.2	4.0
10°-20°	779.4	11.4
20°-30°	1151.5	16.9
30°-40°	1309.1	19.2
40°-50°	1222.5	17.9
50°-60°	950.7	13.9
60°-70°	630.8	9.3
70°-80°	365.1	5.4
80°-90°	132.7	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°	2205.0	32.4
0°-40°	3514.1	51.6
0°-60°	5687.4	83.4
0°-90°	6816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2899	2884	2883	2888	2895	275
15°	2778	2764	2763	2762	2780	783
25°	2512	2502	2506	2500	2511	1155
35°	2116	2105	2100	2085	2091	1321
45°	1617	1604	1587	1567	1568	1246
55°	1100	1084	1059	1031	1028	986
65°	663	642	625	614	615	662
75°	347	339	331	346	356	372
85°	118	116	119	135	136	129
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2896.8	2896.8	2896.8	2896.8	2896.8
2.5°	2901.1	2892.5	2896.8	2893.6	2903.2
5°	2898.9	2884.0	2882.9	2888.3	2894.7
7.5°	2878.7	2862.7	2865.9	2865.9	2876.6
10°	2854.2	2838.2	2840.3	2841.4	2853.1
12.5°	2821.2	2805.2	2806.2	2805.2	2816.9
15°	2777.5	2763.6	2762.6	2761.5	2779.6
17.5°	2724.2	2705.0	2711.4	2712.5	2722.1
20°	2662.4	2647.5	2651.8	2650.7	2670.9
22.5°	2588.9	2578.2	2581.4	2579.3	2598.5
25°	2512.2	2501.5	2505.8	2500.5	2511.1
27.5°	2425.9	2418.4	2414.2	2411.0	2418.4
30°	2324.7	2320.4	2320.4	2306.6	2315.1
32.5°	2228.8	2214.9	2214.9	2209.6	2204.3
35°	2115.9	2105.2	2099.9	2085.0	2091.4
37.5°	2002.9	1978.4	1976.3	1964.6	1964.6
40°	1873.0	1859.1	1851.7	1838.9	1836.7
42.5°	1749.4	1735.5	1722.7	1701.4	1697.2
45°	1617.3	1604.5	1587.4	1567.2	1568.3
47.5°	1486.2	1468.1	1452.1	1427.6	1424.4
50°	1350.9	1338.1	1314.7	1293.4	1292.3
52.5°	1224.1	1203.9	1182.6	1157.0	1157.0
55°	1099.5	1083.5	1059.0	1031.3	1028.1
57.5°	980.2	965.2	937.5	917.3	912.0
60°	870.4	849.1	823.5	806.5	802.2
62.5°	760.7	741.5	722.3	705.3	704.2
65°	662.7	642.4	625.4	613.7	614.7
67.5°	574.2	557.2	538.0	534.8	535.9
70°	491.1	473.0	459.2	466.6	472.0
72.5°	412.3	402.7	393.1	403.8	411.2
75°	347.3	338.8	331.3	346.3	355.8
77.5°	287.7	281.3	280.2	293.0	301.5
80°	231.2	223.7	226.9	241.8	249.3
82.5°	175.8	170.5	171.5	189.6	195.0
85°	118.3	116.1	119.3	135.3	136.4
87.5°	62.9	62.9	65.0	74.6	71.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)