

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: P293270

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293270  
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-L82765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6826.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 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

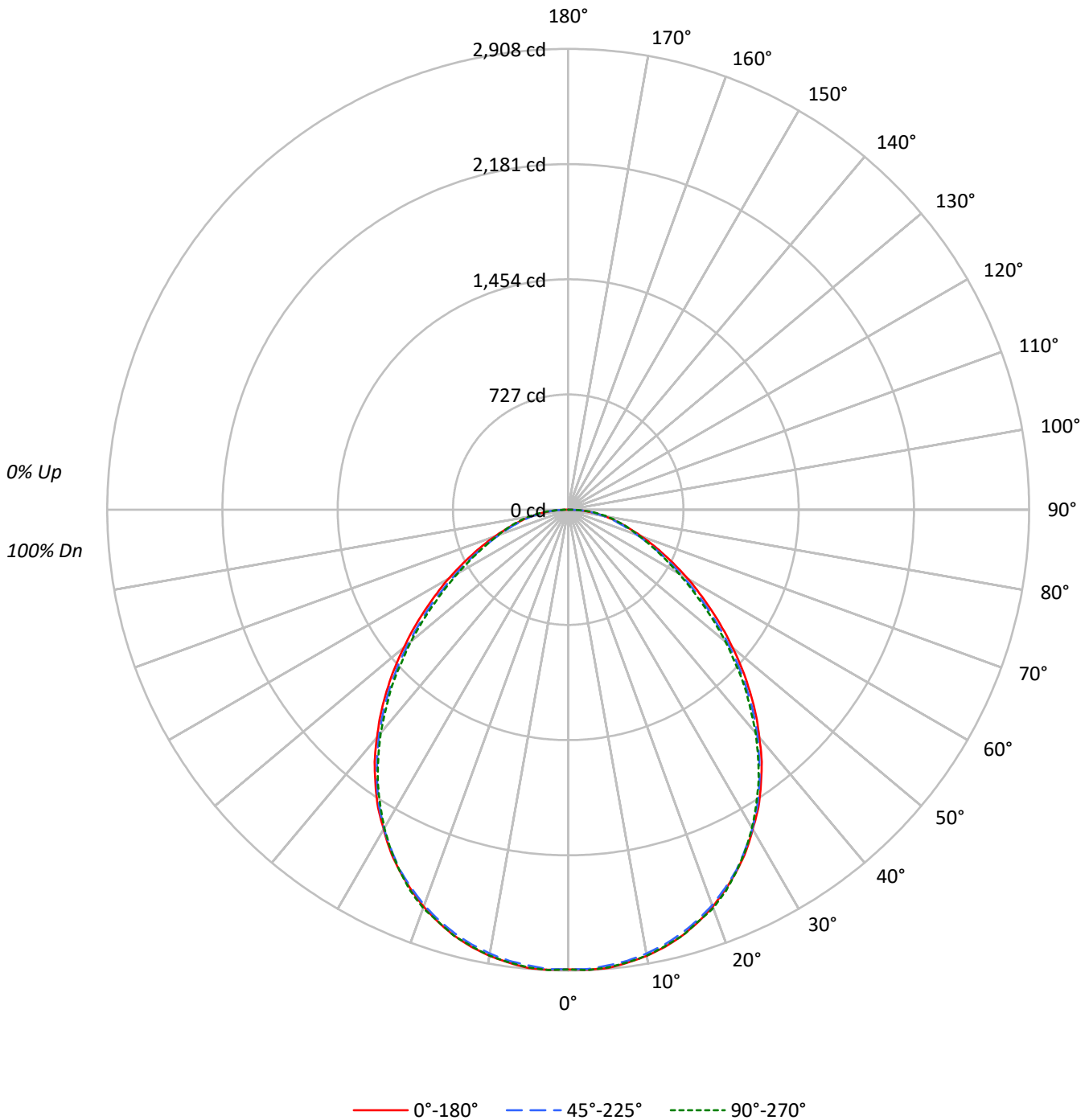
Input Watts (W): 52.173  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3903	3903	3903
5°	3921	3900	3915
10°	3905	3886	3904
15°	3875	3854	3878
20°	3818	3802	3830
25°	3735	3726	3733
30°	3617	3610	3602
35°	3481	3454	3440
40°	3295	3257	3231
45°	3082	3025	2989
50°	2832	2756	2709
55°	2583	2488	2415
60°	2346	2220	2162
65°	2113	1994	1960
70°	1935	1809	1860
75°	1808	1725	1853
80°	1794	1761	1935
85°	1828	1845	2109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.6	4.0
10°-20°	780.6	11.4
20°-30°	1153.1	16.9
30°-40°	1311.0	19.2
40°-50°	1224.3	17.9
50°-60°	952.1	13.9
60°-70°	631.8	9.3
70°-80°	365.6	5.4
80°-90°	132.9	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°	2208.3	32.4
0°-40°	3519.3	51.6
0°-60°	5695.7	83.4
0°-90°	6826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2901	2901	2901	2901	2901	
5°	2903	2888	2887	2892	2899	275
15°	2782	2768	2767	2766	2784	784
25°	2516	2505	2510	2504	2515	1157
35°	2119	2108	2103	2088	2094	1323
45°	1620	1607	1590	1570	1571	1248
55°	1101	1085	1061	1033	1030	987
65°	664	643	626	615	616	663
75°	348	339	332	347	356	372
85°	118	116	120	136	137	129
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2901.0	2901.0	2901.0	2901.0	2901.0
2.5°	2905.3	2896.8	2901.0	2897.8	2907.5
5°	2903.2	2888.2	2887.2	2892.5	2898.9
7.5°	2882.9	2866.9	2870.1	2870.1	2880.8
10°	2858.4	2842.4	2844.5	2845.6	2857.3
12.5°	2825.3	2809.3	2810.4	2809.3	2821.0
15°	2781.6	2767.7	2766.6	2765.5	2783.7
17.5°	2728.2	2709.0	2715.4	2716.5	2726.1
20°	2666.3	2651.4	2655.6	2654.6	2674.9
22.5°	2592.7	2582.0	2585.2	2583.1	2602.3
25°	2515.9	2505.2	2509.5	2504.1	2514.8
27.5°	2429.5	2422.0	2417.7	2414.5	2422.0
30°	2328.1	2323.8	2323.8	2310.0	2318.5
32.5°	2232.1	2218.2	2218.2	2212.9	2207.5
35°	2119.0	2108.3	2103.0	2088.0	2094.4
37.5°	2005.9	1981.3	1979.2	1967.5	1967.5
40°	1875.7	1861.8	1854.4	1841.6	1839.4
42.5°	1751.9	1738.1	1725.3	1703.9	1699.7
45°	1619.6	1606.8	1589.8	1569.5	1570.6
47.5°	1488.4	1470.3	1454.3	1429.7	1426.5
50°	1352.9	1340.1	1316.6	1295.3	1294.2
52.5°	1225.9	1205.7	1184.3	1158.7	1158.7
55°	1101.1	1085.1	1060.6	1032.8	1029.6
57.5°	981.6	966.7	938.9	918.6	913.3
60°	871.7	850.4	824.8	807.7	803.4
62.5°	761.8	742.6	723.4	706.3	705.3
65°	663.6	643.4	626.3	614.6	615.6
67.5°	575.1	558.0	538.8	535.6	536.7
70°	491.9	473.7	459.9	467.3	472.7
72.5°	412.9	403.3	393.7	404.4	411.8
75°	347.8	339.3	331.8	346.8	356.4
77.5°	288.1	281.7	280.6	293.4	301.9
80°	231.5	224.1	227.3	242.2	249.7
82.5°	176.0	170.7	171.8	189.9	195.3
85°	118.4	116.3	119.5	135.5	136.6
87.5°	63.0	63.0	65.1	74.7	71.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)