

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: P293650

Luminaire Tested: **24GR-LD5-72-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-A-UNV-L92765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6460.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

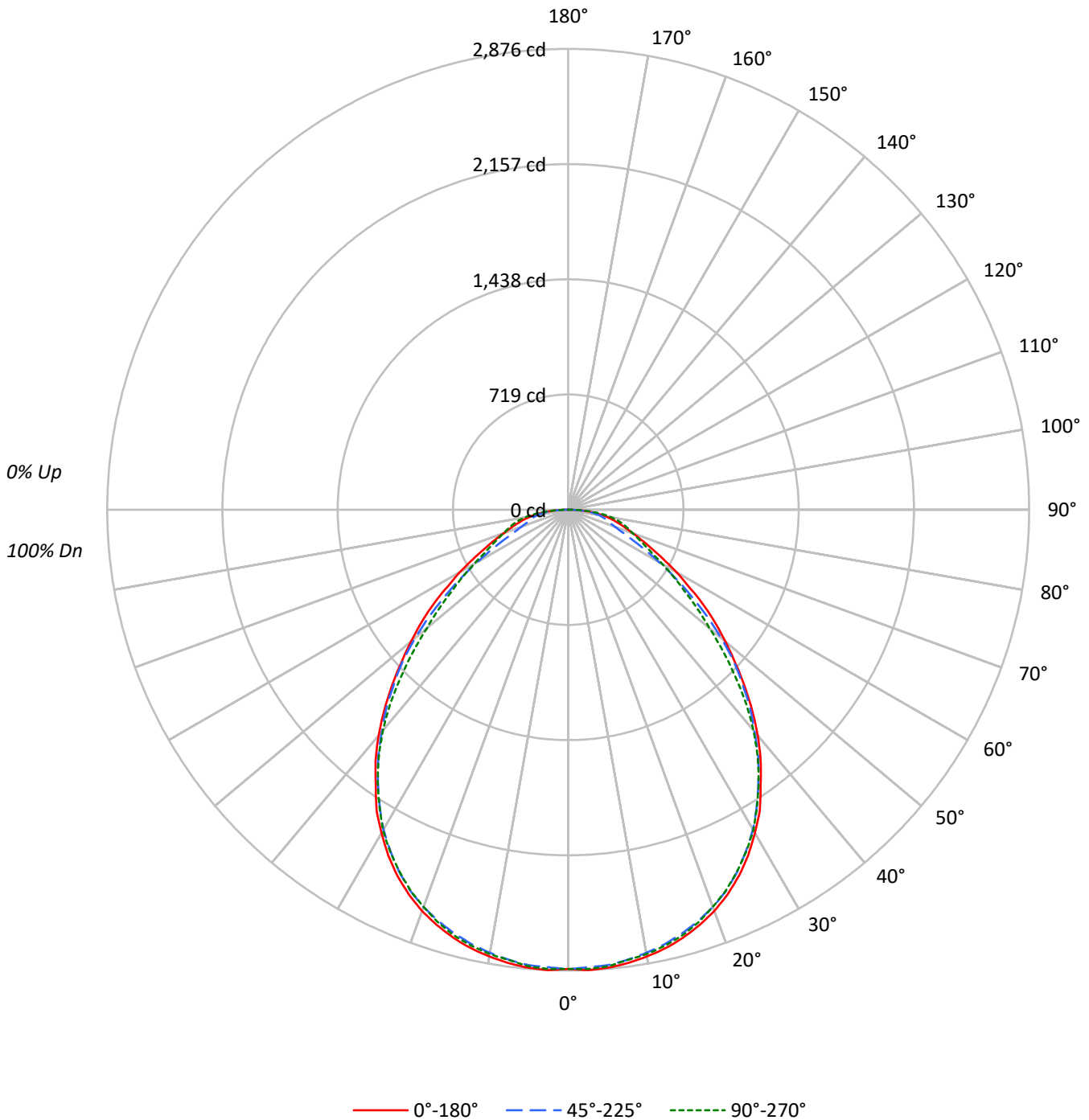
Input Watts (W): 53.196  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

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

	0°	45°	90°
0°	3856	3856	3856
5°	3875	3854	3863
10°	3868	3837	3848
15°	3853	3815	3831
20°	3817	3778	3777
25°	3742	3703	3700
30°	3619	3582	3589
35°	3438	3398	3403
40°	3232	3176	3157
45°	2962	2923	2807
50°	2678	2605	2409
55°	2404	2189	2076
60°	2105	1762	1826
65°	1836	1385	1681
70°	1680	1209	1680
75°	1681	1287	1852
80°	1825	1516	2111
85°	2002	1711	2265



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	4.2
10°-20°	774.6	12.0
20°-30°	1148.6	17.8
30°-40°	1295.7	20.1
40°-50°	1173.5	18.2
50°-60°	846.6	13.1
60°-70°	505.5	7.8
70°-80°	312.4	4.8
80°-90°	131.6	2.0
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°	2194.6	34.0
0°-40°	3490.3	54.0
0°-60°	5510.4	85.3
0°-90°	6460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6460.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2866	2866	2866	2866	2866	
5°	2869	2865	2853	2850	2860	273
15°	2766	2750	2738	2740	2750	780
25°	2521	2507	2494	2485	2492	1158
35°	2093	2090	2069	2070	2072	1309
45°	1557	1547	1536	1498	1475	1200
55°	1025	993	933	887	885	915
65°	577	508	435	494	528	580
75°	323	280	248	308	356	345
85°	130	114	111	145	147	136
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2866.2	2866.2	2866.2	2866.2	2866.2
2.5°	2876.2	2868.2	2858.2	2864.2	2869.2
5°	2869.2	2865.2	2853.3	2850.3	2860.2
7.5°	2854.3	2844.3	2833.3	2838.3	2834.3
10°	2831.3	2822.3	2808.3	2809.3	2816.3
12.5°	2803.4	2792.4	2777.4	2781.4	2787.4
15°	2766.4	2749.5	2738.5	2739.5	2750.5
17.5°	2719.5	2706.5	2692.6	2695.6	2700.6
20°	2665.6	2658.6	2638.7	2632.7	2637.7
22.5°	2597.8	2584.8	2573.8	2570.8	2571.8
25°	2520.9	2507.0	2494.0	2485.0	2492.0
27.5°	2431.1	2419.1	2402.2	2399.2	2405.2
30°	2329.3	2320.3	2305.4	2301.4	2310.3
32.5°	2225.5	2210.5	2189.6	2189.6	2191.6
35°	2092.8	2089.8	2068.8	2069.8	2071.8
37.5°	1973.0	1959.1	1947.1	1935.1	1941.1
40°	1840.3	1824.3	1808.4	1800.4	1797.4
42.5°	1697.6	1685.6	1678.6	1649.7	1642.7
45°	1556.9	1546.9	1535.9	1498.0	1475.0
47.5°	1413.2	1411.2	1402.2	1335.3	1312.4
50°	1279.4	1276.4	1244.5	1173.6	1150.7
52.5°	1152.7	1132.7	1090.8	1020.9	1017.0
55°	1024.9	993.0	933.1	887.2	885.2
57.5°	890.2	852.3	791.4	766.5	779.4
60°	782.4	724.5	654.7	657.7	678.6
62.5°	670.6	605.8	536.9	566.9	591.8
65°	576.8	508.0	435.1	494.0	527.9
67.5°	495.0	431.1	361.3	440.1	473.0
70°	427.1	375.2	307.4	390.2	427.1
72.5°	373.2	325.3	272.5	350.3	393.2
75°	323.3	280.4	247.5	308.4	356.3
77.5°	280.4	238.5	223.5	272.5	319.4
80°	235.5	197.6	195.6	237.5	272.5
82.5°	183.6	157.7	157.7	198.6	219.6
85°	129.7	113.8	110.8	144.7	146.7
87.5°	66.9	63.9	57.9	75.8	75.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)