

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: P293397

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293397  
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-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6186.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 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

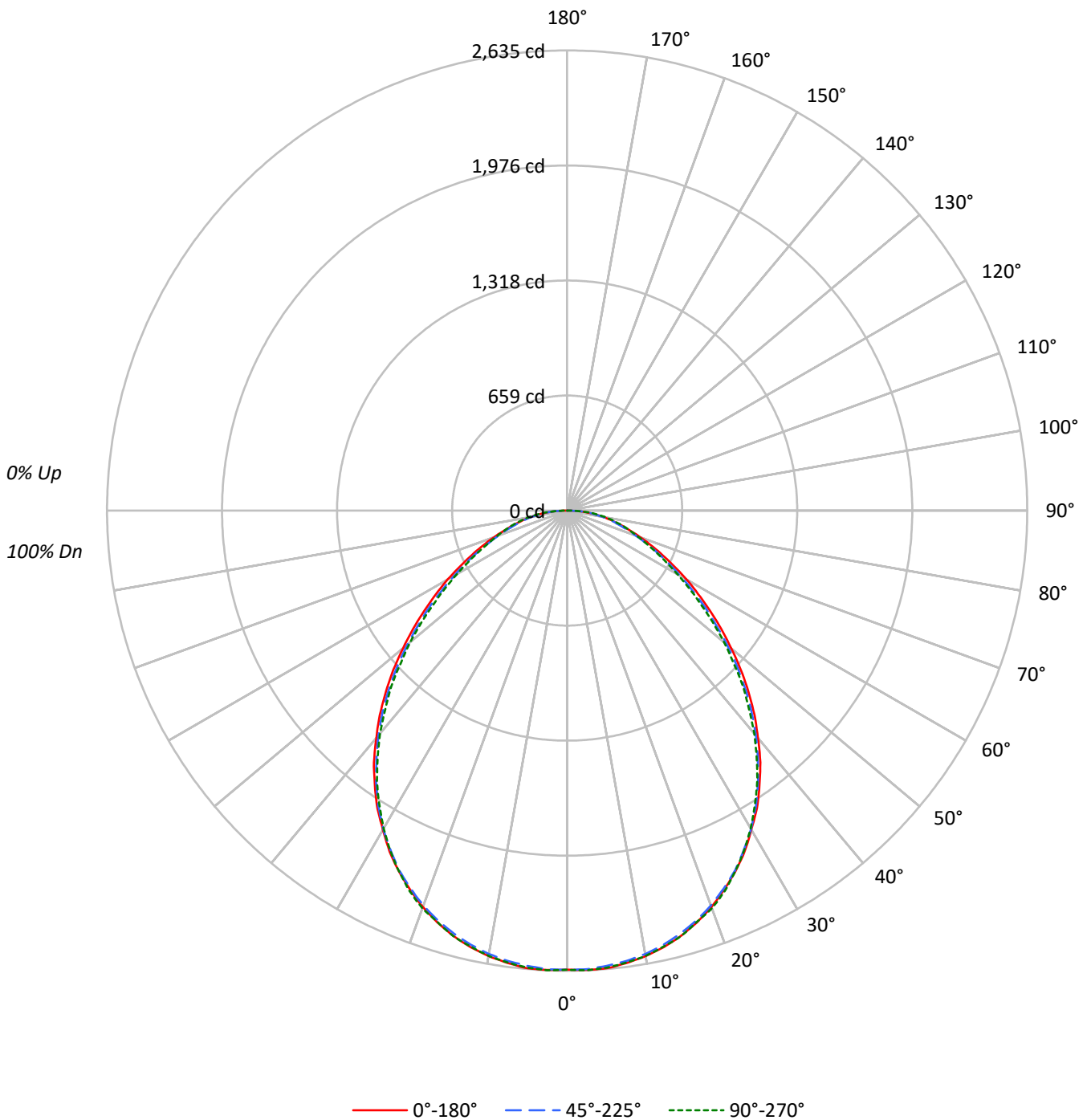
Input Watts (W): 52.638  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3537	3537	3537
5°	3554	3534	3548
10°	3539	3522	3538
15°	3511	3492	3514
20°	3460	3446	3471
25°	3385	3376	3383
30°	3278	3272	3264
35°	3154	3130	3118
40°	2986	2952	2928
45°	2793	2741	2708
50°	2566	2498	2455
55°	2341	2255	2189
60°	2126	2011	1959
65°	1915	1807	1776
70°	1753	1639	1685
75°	1639	1563	1679
80°	1626	1596	1753
85°	1656	1672	1911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.8	4.0
10°-20°	707.4	11.4
20°-30°	1045.0	16.9
30°-40°	1188.1	19.2
40°-50°	1109.5	17.9
50°-60°	862.8	13.9
60°-70°	572.5	9.3
70°-80°	331.3	5.4
80°-90°	120.5	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°	2001.2	32.4
0°-40°	3189.3	51.6
0°-60°	5161.7	83.4
0°-90°	6186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2631	2617	2616	2621	2627	250
15°	2521	2508	2507	2506	2523	710
25°	2280	2270	2274	2269	2279	1048
35°	1920	1911	1906	1892	1898	1199
45°	1468	1456	1441	1422	1423	1131
55°	998	983	961	936	933	895
65°	601	583	568	557	558	601
75°	315	308	301	314	323	337
85°	107	105	108	123	124	117
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2629.0	2629.0	2629.0	2629.0	2629.0
2.5°	2632.9	2625.2	2629.0	2626.1	2634.9
5°	2631.0	2617.4	2616.5	2621.3	2627.1
7.5°	2612.6	2598.1	2601.0	2601.0	2610.7
10°	2590.4	2575.9	2577.8	2578.8	2589.4
12.5°	2560.4	2545.9	2546.9	2545.9	2556.5
15°	2520.8	2508.2	2507.2	2506.3	2522.7
17.5°	2472.4	2455.0	2460.8	2461.8	2470.5
20°	2416.3	2402.8	2406.7	2405.7	2424.1
22.5°	2349.6	2339.9	2342.8	2340.9	2358.3
25°	2280.0	2270.3	2274.2	2269.4	2279.0
27.5°	2201.7	2194.9	2191.0	2188.1	2194.9
30°	2109.8	2105.9	2105.9	2093.4	2101.1
32.5°	2022.8	2010.2	2010.2	2005.4	2000.6
35°	1920.3	1910.6	1905.8	1892.3	1898.1
37.5°	1817.8	1795.6	1793.6	1783.0	1783.0
40°	1699.8	1687.3	1680.5	1668.9	1667.0
42.5°	1587.7	1575.1	1563.5	1544.2	1540.3
45°	1467.8	1456.2	1440.7	1422.3	1423.3
47.5°	1348.9	1332.4	1317.9	1295.7	1292.8
50°	1226.1	1214.4	1193.2	1173.8	1172.9
52.5°	1111.0	1092.6	1073.3	1050.1	1050.1
55°	997.9	983.4	961.1	936.0	933.1
57.5°	889.6	876.0	850.9	832.5	827.7
60°	790.0	770.6	747.4	732.0	728.1
62.5°	690.4	673.0	655.6	640.1	639.1
65°	601.4	583.1	567.6	556.9	557.9
67.5°	521.2	505.7	488.3	485.4	486.4
70°	445.7	429.3	416.7	423.5	428.3
72.5°	374.2	365.5	356.8	366.5	373.2
75°	315.2	307.5	300.7	314.2	323.0
77.5°	261.1	255.3	254.3	265.9	273.6
80°	209.8	203.1	206.0	219.5	226.3
82.5°	159.5	154.7	155.7	172.1	176.9
85°	107.3	105.4	108.3	122.8	123.8
87.5°	57.0	57.0	59.0	67.7	64.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)