

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: P293910

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-85-A125-UNV-L92765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7105.0 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

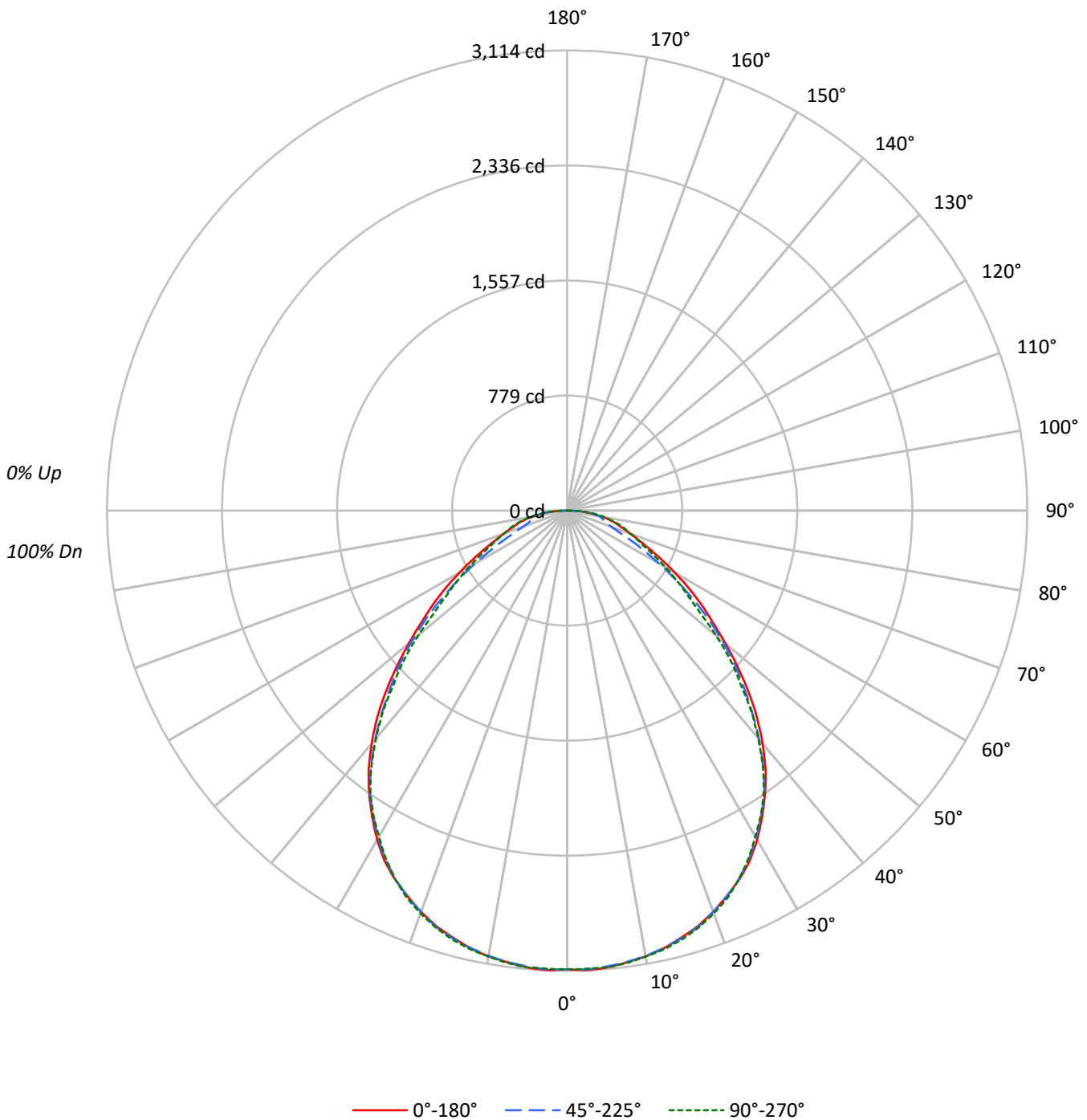
Input Watts (W): 62.589  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	4177	4177	4177
5°	4192	4183	4190
10°	4186	4180	4187
15°	4166	4173	4184
20°	4137	4137	4153
25°	4091	4082	4086
30°	3995	3975	3956
35°	3838	3827	3812
40°	3615	3549	3534
45°	3307	3216	3157
50°	2923	2865	2754
55°	2600	2423	2330
60°	2264	1939	2079
65°	1955	1503	1839
70°	1783	1230	1779
75°	1798	1325	1890
80°	1872	1726	1992
85°	1951	2053	2208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.5	4.1
10°-20°	844.6	11.9
20°-30°	1264.3	17.8
30°-40°	1444.7	20.3
40°-50°	1306.1	18.4
50°-60°	939.7	13.2
60°-70°	544.8	7.7
70°-80°	323.2	4.5
80°-90°	143.1	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°	2403.4	33.8
0°-40°	3848.1	54.2
0°-60°	6093.9	85.8
0°-90°	7105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3105	3105	3105	3105	3105	
5°	3104	3099	3097	3092	3102	295
15°	2990	2996	2996	2993	3004	844
25°	2756	2752	2750	2744	2752	1267
35°	2336	2325	2330	2301	2321	1457
45°	1738	1708	1690	1675	1659	1335
55°	1108	1087	1033	1006	993	992
65°	614	545	472	528	578	620
75°	346	289	255	315	364	365
85°	126	136	133	153	143	135
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3104.6	3104.6	3104.6	3104.6	3104.6
2.5°	3113.5	3102.4	3108.0	3104.6	3103.5
5°	3103.5	3099.1	3096.9	3092.4	3102.4
7.5°	3083.6	3080.3	3081.4	3082.5	3089.1
10°	3063.6	3058.1	3059.2	3061.4	3064.7
12.5°	3032.6	3029.3	3030.4	3032.6	3040.4
15°	2990.5	2996.0	2996.0	2992.7	3003.8
17.5°	2948.4	2947.2	2952.8	2942.8	2958.3
20°	2889.6	2890.7	2889.6	2890.7	2900.7
22.5°	2823.1	2828.6	2825.3	2825.3	2836.4
25°	2755.5	2752.2	2749.9	2744.4	2752.2
27.5°	2674.6	2667.9	2662.4	2651.3	2656.8
30°	2571.5	2572.6	2558.2	2548.2	2546.0
32.5°	2456.2	2456.2	2442.9	2435.2	2441.8
35°	2336.5	2325.4	2329.9	2301.0	2321.0
37.5°	2206.8	2189.1	2179.1	2169.1	2175.8
40°	2058.3	2035.0	2020.6	2000.7	2011.8
42.5°	1902.0	1873.2	1855.5	1841.1	1845.5
45°	1738.0	1708.0	1690.3	1674.8	1659.3
47.5°	1565.1	1546.2	1537.4	1517.4	1499.7
50°	1396.6	1389.9	1368.9	1352.3	1315.7
52.5°	1242.5	1237.0	1203.7	1176.0	1129.5
55°	1108.4	1087.3	1033.0	1006.4	993.1
57.5°	972.1	937.7	872.3	869.0	877.9
60°	841.3	799.2	720.5	738.2	772.6
62.5°	722.7	659.5	584.1	626.2	667.3
65°	614.1	545.3	472.2	527.6	577.5
67.5°	524.3	455.6	380.2	454.4	512.1
70°	453.3	383.5	312.6	397.9	452.2
72.5°	394.6	331.4	272.7	353.6	410.1
75°	345.8	289.3	254.9	314.8	363.6
77.5°	297.1	251.6	243.8	280.4	310.4
80°	241.6	220.6	222.8	246.1	257.1
82.5°	180.7	181.8	187.3	206.2	201.7
85°	126.4	136.3	133.0	153.0	143.0
87.5°	69.8	76.5	72.0	87.6	78.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)