

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: P293696

Luminaire Tested: **24GR-LD5-64-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293696  
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-LD5-64-A125-UNV-L83050-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6411.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 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

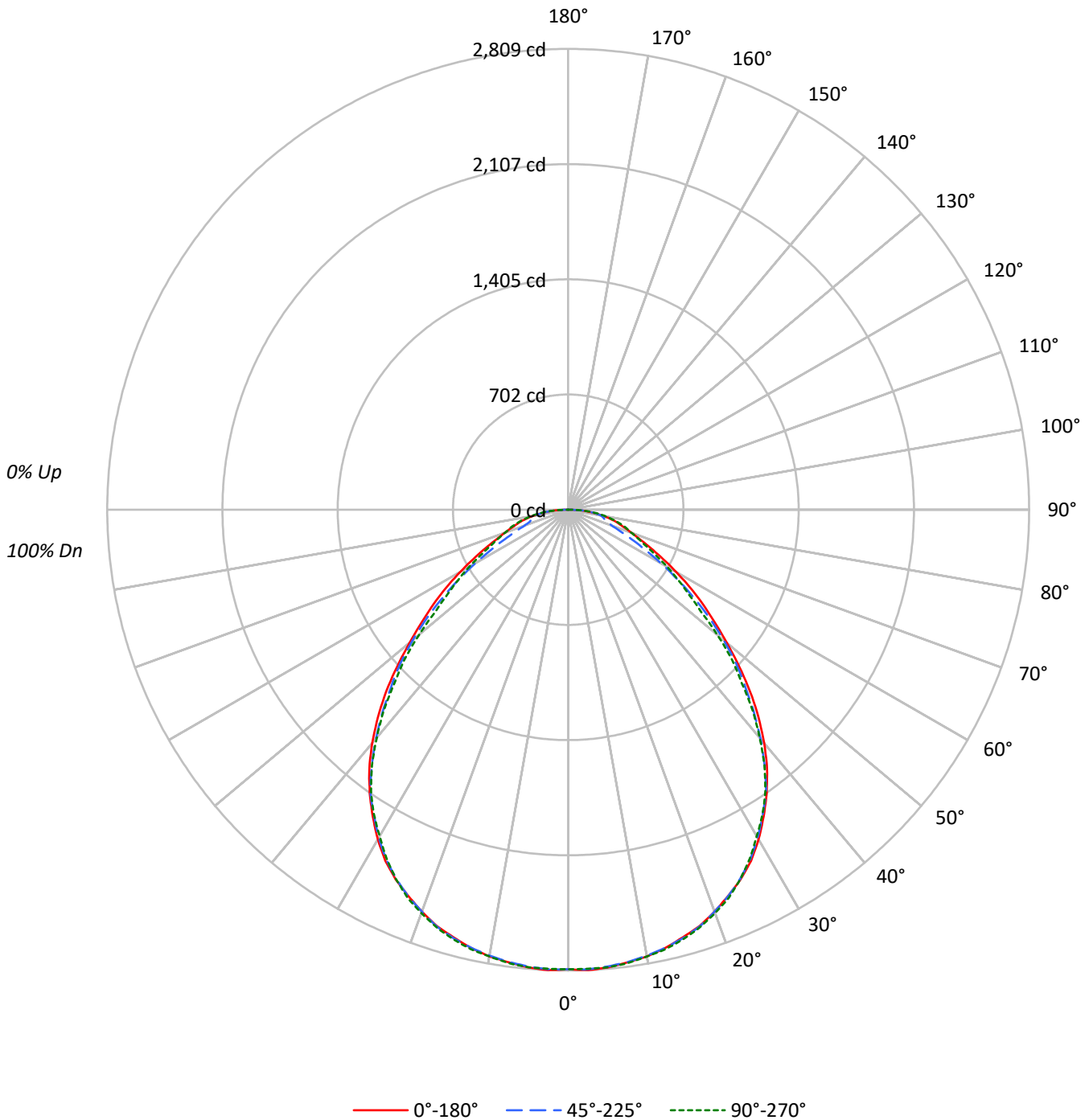
Input Watts (W): 45.942  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	69	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°	3769	3769	3769
5°	3782	3774	3781
10°	3777	3771	3778
15°	3759	3766	3775
20°	3733	3733	3748
25°	3691	3684	3687
30°	3605	3586	3569
35°	3463	3453	3440
40°	3262	3202	3188
45°	2984	2902	2849
50°	2638	2586	2485
55°	2346	2187	2102
60°	2043	1749	1876
65°	1764	1357	1659
70°	1609	1109	1605
75°	1622	1196	1705
80°	1689	1557	1798
85°	1760	1853	1991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.7	4.1
10°-20°	762.1	11.9
20°-30°	1140.8	17.8
30°-40°	1303.6	20.3
40°-50°	1178.6	18.4
50°-60°	847.9	13.2
60°-70°	491.6	7.7
70°-80°	291.6	4.5
80°-90°	129.1	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°	2168.7	33.8
0°-40°	3472.3	54.2
0°-60°	5498.7	85.8
0°-90°	6411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6411.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2801	2801	2801	2801	2801	
5°	2800	2796	2794	2790	2799	266
15°	2698	2703	2703	2700	2710	762
25°	2486	2483	2481	2476	2483	1143
35°	2108	2098	2102	2076	2094	1314
45°	1568	1541	1525	1511	1497	1205
55°	1000	981	932	908	896	895
65°	554	492	426	476	521	559
75°	312	261	230	284	328	330
85°	114	123	120	138	129	122
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2801.4	2801.4	2801.4	2801.4	2801.4
2.5°	2809.4	2799.4	2804.4	2801.4	2800.4
5°	2800.4	2796.4	2794.4	2790.4	2799.4
7.5°	2782.4	2779.4	2780.4	2781.4	2787.4
10°	2764.4	2759.4	2760.4	2762.4	2765.4
12.5°	2736.4	2733.4	2734.4	2736.4	2743.4
15°	2698.4	2703.4	2703.4	2700.4	2710.4
17.5°	2660.4	2659.4	2664.4	2655.4	2669.4
20°	2607.4	2608.4	2607.4	2608.4	2617.4
22.5°	2547.3	2552.4	2549.3	2549.3	2559.4
25°	2486.3	2483.3	2481.3	2476.3	2483.3
27.5°	2413.3	2407.3	2402.3	2392.3	2397.3
30°	2320.3	2321.3	2308.3	2299.3	2297.3
32.5°	2216.3	2216.3	2204.3	2197.3	2203.3
35°	2108.3	2098.3	2102.3	2076.3	2094.3
37.5°	1991.3	1975.3	1966.3	1957.3	1963.3
40°	1857.3	1836.3	1823.3	1805.2	1815.2
42.5°	1716.2	1690.2	1674.2	1661.2	1665.2
45°	1568.2	1541.2	1525.2	1511.2	1497.2
47.5°	1412.2	1395.2	1387.2	1369.2	1353.2
50°	1260.2	1254.2	1235.2	1220.2	1187.2
52.5°	1121.2	1116.2	1086.1	1061.1	1019.1
55°	1000.1	981.1	932.1	908.1	896.1
57.5°	877.1	846.1	787.1	784.1	792.1
60°	759.1	721.1	650.1	666.1	697.1
62.5°	652.1	595.1	527.1	565.1	602.1
65°	554.1	492.1	426.1	476.1	521.1
67.5°	473.1	411.1	343.0	410.1	462.1
70°	409.1	346.0	282.0	359.0	408.1
72.5°	356.0	299.0	246.0	319.0	370.1
75°	312.0	261.0	230.0	284.0	328.0
77.5°	268.0	227.0	220.0	253.0	280.0
80°	218.0	199.0	201.0	222.0	232.0
82.5°	163.0	164.0	169.0	186.0	182.0
85°	114.0	123.0	120.0	138.0	129.0
87.5°	63.0	69.0	65.0	79.0	71.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)