

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: P475722

Luminaire Tested: **24GR-LD5-64-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475722  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-A-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6148.0 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

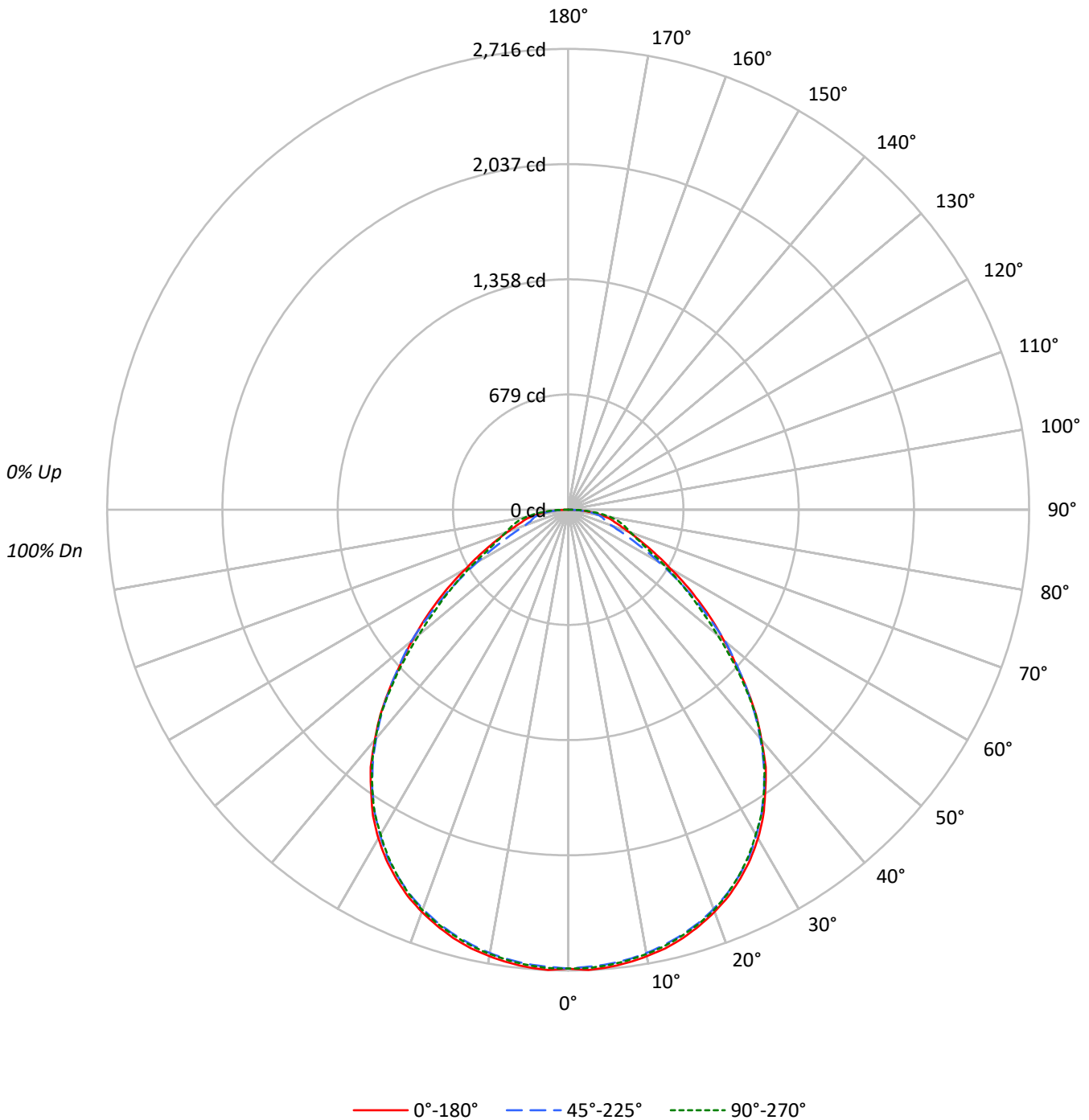
Input Watts (W): 43.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	92	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	74	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56					56			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	74	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	42	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

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

	0°	45°	90°
0°	3638	3638	3638
5°	3656	3632	3640
10°	3651	3626	3633
15°	3640	3612	3620
20°	3612	3586	3595
25°	3562	3535	3533
30°	3475	3443	3435
35°	3326	3305	3305
40°	3112	3094	3107
45°	2825	2821	2798
50°	2506	2525	2401
55°	2202	2106	2056
60°	1875	1663	1749
65°	1638	1293	1544
70°	1481	1065	1541
75°	1482	1136	1721
80°	1633	1398	1970
85°	1683	1570	2149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.0	4.2
10°-20°	733.0	11.9
20°-30°	1096.6	17.8
30°-40°	1254.9	20.4
40°-50°	1136.9	18.5
50°-60°	804.9	13.1
60°-70°	465.0	7.6
70°-80°	281.9	4.6
80°-90°	118.7	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°	2085.7	33.9
0°-40°	3340.5	54.3
0°-60°	5282.4	85.9
0°-90°	6148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6148.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2704	2704	2704	2704	2704	
5°	2707	2697	2689	2688	2695	257
15°	2613	2603	2593	2593	2599	737
25°	2399	2389	2381	2380	2380	1103
35°	2025	2016	2012	2009	2012	1263
45°	1485	1482	1482	1472	1470	1144
55°	939	907	898	871	876	841
65°	514	461	406	465	485	517
75°	285	256	218	281	331	305
85°	109	98	102	130	139	117
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2704.1	2704.1	2704.1	2704.1	2704.1
2.5°	2715.6	2705.3	2696.2	2697.4	2704.1
5°	2707.1	2697.4	2688.9	2688.3	2695.0
7.5°	2692.6	2684.1	2674.4	2674.4	2679.9
10°	2672.0	2663.5	2653.8	2653.2	2659.3
12.5°	2647.8	2636.9	2626.6	2626.6	2633.2
15°	2613.3	2603.0	2592.7	2592.7	2598.7
17.5°	2570.9	2561.8	2553.3	2553.9	2558.8
20°	2522.5	2513.4	2504.3	2505.5	2511.0
22.5°	2466.8	2455.9	2448.6	2448.0	2451.6
25°	2399.0	2389.3	2381.4	2379.6	2379.6
27.5°	2323.3	2313.0	2307.6	2299.1	2301.5
30°	2236.7	2225.8	2216.2	2211.3	2210.7
32.5°	2139.3	2128.4	2119.9	2119.3	2121.7
35°	2024.9	2015.8	2012.2	2009.1	2012.2
37.5°	1911.7	1894.7	1891.7	1891.1	1899.0
40°	1771.8	1765.8	1761.5	1758.5	1768.8
42.5°	1637.5	1625.3	1626.6	1615.1	1633.2
45°	1484.9	1481.9	1482.5	1471.6	1470.4
47.5°	1333.6	1333.0	1342.0	1311.8	1310.0
50°	1197.4	1191.3	1206.4	1159.8	1147.1
52.5°	1067.2	1050.3	1045.4	1003.1	1003.1
55°	938.9	907.4	897.7	871.1	876.5
57.5°	817.2	772.4	752.4	751.8	760.9
60°	696.7	645.9	618.1	639.8	650.1
62.5°	601.1	545.4	503.0	544.2	553.9
65°	514.5	461.3	406.2	464.9	484.9
67.5°	440.1	395.9	326.9	403.8	430.4
70°	376.5	337.2	270.6	355.9	391.7
72.5°	326.3	293.6	235.5	317.8	360.8
75°	285.1	255.5	218.5	280.9	331.1
77.5°	252.4	217.3	204.6	245.8	297.2
80°	210.7	178.6	180.4	211.3	254.2
82.5°	162.2	138.0	145.3	174.9	199.8
85°	109.0	98.1	101.7	130.1	139.2
87.5°	53.9	52.1	55.7	76.3	76.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)