

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: P293517

Luminaire Tested: **24GR-LD5-64-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293517  
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-LD5-64-A-UNV-L82765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6666.0 lumens  
Efficiency: N/A  
Efficacy: 141.7 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

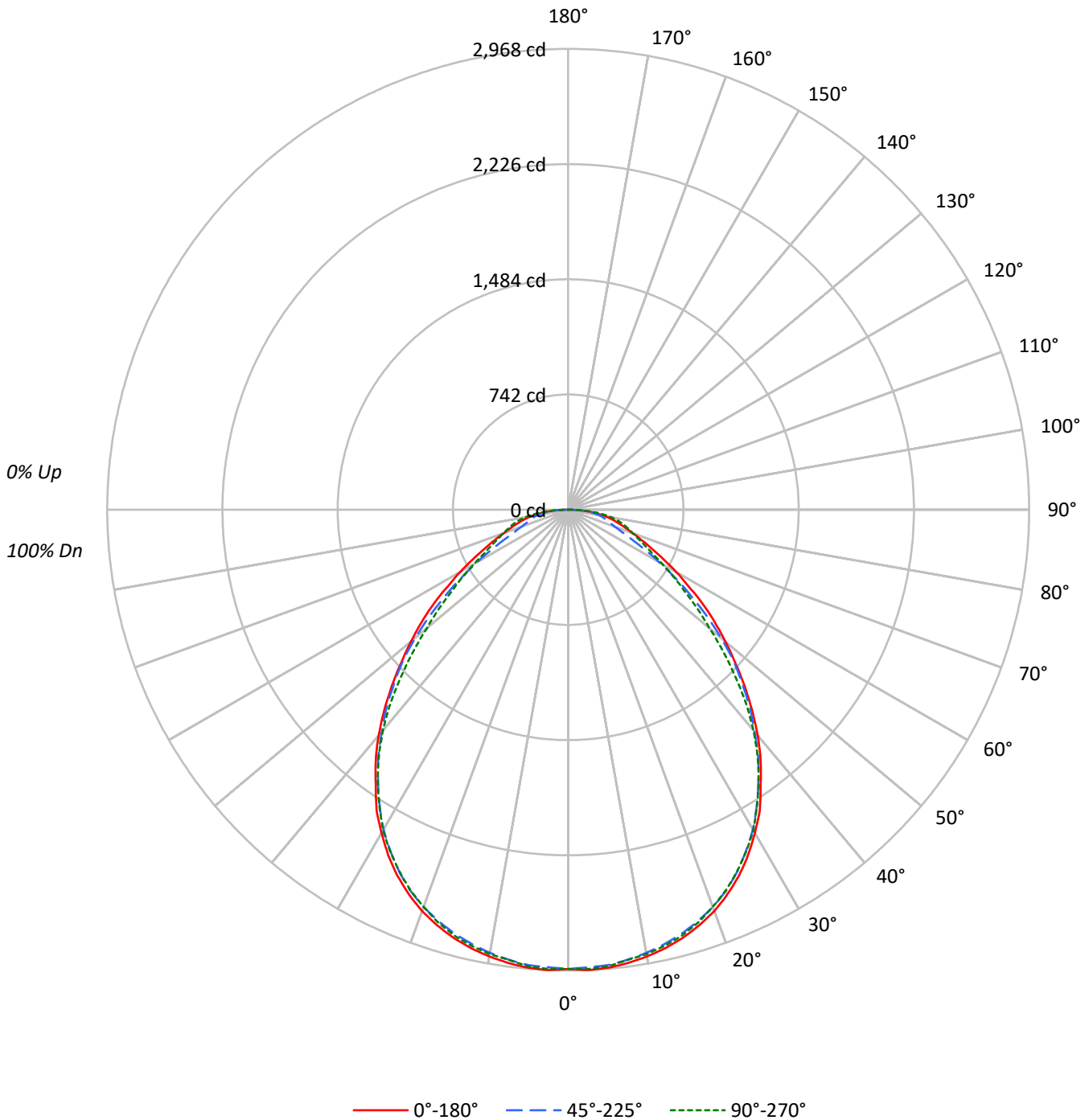
Input Watts (W): 47.058  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3979	3979	3979
5°	3999	3977	3986
10°	3992	3959	3970
15°	3976	3936	3953
20°	3938	3899	3897
25°	3862	3821	3817
30°	3734	3696	3704
35°	3547	3506	3512
40°	3335	3277	3258
45°	3057	3016	2896
50°	2763	2688	2485
55°	2481	2259	2143
60°	2173	1818	1884
65°	1895	1429	1734
70°	1734	1248	1734
75°	1735	1328	1911
80°	1883	1564	2178
85°	2067	1765	2337



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.1	4.2
10°-20°	799.3	12.0
20°-30°	1185.2	17.8
30°-40°	1337.0	20.1
40°-50°	1211.0	18.2
50°-60°	873.6	13.1
60°-70°	521.6	7.8
70°-80°	322.4	4.8
80°-90°	135.8	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°	2264.5	34.0
0°-40°	3601.6	54.0
0°-60°	5686.2	85.3
0°-90°	6666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6666.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2961	2957	2944	2941	2951	281
15°	2855	2837	2826	2827	2838	805
25°	2601	2587	2574	2564	2571	1195
35°	2160	2156	2135	2136	2138	1351
45°	1606	1596	1585	1546	1522	1238
55°	1058	1025	963	916	913	944
65°	595	524	449	510	545	599
75°	334	289	255	318	368	356
85°	134	117	114	149	151	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2957.6	2957.6	2957.6	2957.6	2957.6
2.5°	2967.9	2959.7	2949.4	2955.6	2960.7
5°	2960.7	2956.6	2944.2	2941.1	2951.4
7.5°	2945.3	2935.0	2923.6	2928.8	2924.7
10°	2921.6	2912.3	2897.9	2898.9	2906.1
12.5°	2892.7	2881.4	2866.0	2870.1	2876.3
15°	2854.6	2837.1	2825.8	2826.8	2838.2
17.5°	2806.2	2792.9	2778.4	2781.5	2786.7
20°	2750.6	2743.4	2722.8	2716.7	2721.8
22.5°	2680.6	2667.2	2655.9	2652.8	2653.8
25°	2601.3	2586.9	2573.5	2564.2	2571.4
27.5°	2508.6	2496.3	2478.8	2475.7	2481.9
30°	2403.6	2394.3	2378.9	2374.8	2384.0
32.5°	2296.5	2281.0	2259.4	2259.4	2261.5
35°	2159.5	2156.4	2134.8	2135.8	2137.9
37.5°	2035.9	2021.5	2009.2	1996.8	2003.0
40°	1899.0	1882.5	1866.0	1857.8	1854.7
42.5°	1751.7	1739.4	1732.1	1702.3	1695.1
45°	1606.5	1596.2	1584.9	1545.8	1522.1
47.5°	1458.2	1456.2	1446.9	1377.9	1354.2
50°	1320.2	1317.1	1284.2	1211.1	1187.4
52.5°	1189.4	1168.8	1125.6	1053.5	1049.4
55°	1057.6	1024.7	962.9	915.5	913.4
57.5°	918.6	879.5	816.6	790.9	804.3
60°	807.4	747.6	675.6	678.6	700.3
62.5°	692.0	625.1	554.0	584.9	610.7
65°	595.2	524.2	449.0	509.8	544.8
67.5°	510.8	444.9	372.8	454.1	488.1
70°	440.8	387.2	317.2	402.7	440.8
72.5°	385.2	335.7	281.1	361.5	405.7
75°	333.7	289.4	255.4	318.2	367.6
77.5°	289.4	246.1	230.7	281.1	329.5
80°	243.0	203.9	201.8	245.1	281.1
82.5°	189.5	162.7	162.7	204.9	226.6
85°	133.9	117.4	114.3	149.3	151.4
87.5°	69.0	65.9	59.7	78.3	78.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)