

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: P293641

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293641  
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-L92765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5718.0 lumens  
Efficiency: N/A  
Efficacy: 123.0 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

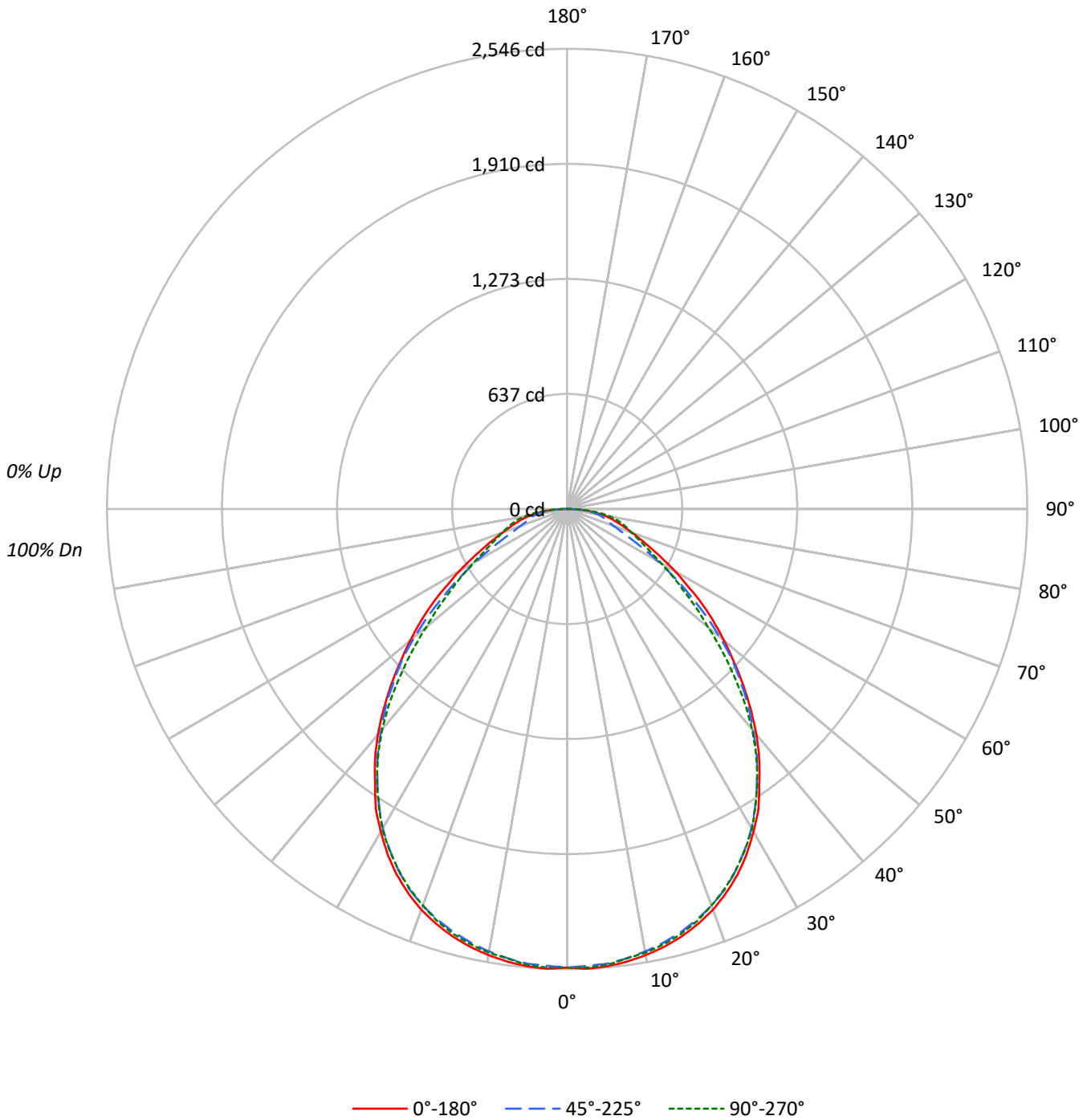
Input Watts (W): 46.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3414	3414	3414
5°	3430	3411	3419
10°	3424	3396	3406
15°	3411	3376	3391
20°	3378	3344	3343
25°	3313	3277	3275
30°	3203	3170	3177
35°	3043	3008	3012
40°	2861	2811	2794
45°	2622	2587	2484
50°	2371	2306	2132
55°	2128	1937	1838
60°	1864	1559	1616
65°	1626	1226	1488
70°	1487	1070	1487
75°	1488	1139	1640
80°	1616	1341	1869
85°	1772	1514	2005



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.2	4.2
10°-20°	685.6	12.0
20°-30°	1016.6	17.8
30°-40°	1146.9	20.1
40°-50°	1038.7	18.2
50°-60°	749.4	13.1
60°-70°	447.4	7.8
70°-80°	276.6	4.8
80°-90°	116.5	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°	1942.5	34.0
0°-40°	3089.4	54.0
0°-60°	4877.5	85.3
0°-90°	5718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5718.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2540	2536	2526	2523	2532	241
15°	2449	2434	2424	2425	2434	690
25°	2231	2219	2208	2200	2206	1025
35°	1852	1850	1831	1832	1834	1159
45°	1378	1369	1360	1326	1306	1062
55°	907	879	826	785	784	810
65°	511	450	385	437	467	514
75°	286	248	219	273	315	306
85°	115	101	98	128	130	120
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2537.0	2537.0	2537.0	2537.0	2537.0
2.5°	2545.8	2538.8	2529.9	2535.2	2539.7
5°	2539.7	2536.1	2525.5	2522.9	2531.7
7.5°	2526.4	2517.6	2507.9	2512.3	2508.7
10°	2506.1	2498.1	2485.8	2486.7	2492.8
12.5°	2481.4	2471.6	2458.4	2461.9	2467.2
15°	2448.7	2433.7	2423.9	2424.8	2434.5
17.5°	2407.2	2395.7	2383.3	2386.0	2390.4
20°	2359.5	2353.3	2335.6	2330.3	2334.7
22.5°	2299.4	2287.9	2278.2	2275.5	2276.4
25°	2231.4	2219.0	2207.5	2199.6	2205.8
27.5°	2151.9	2141.3	2126.2	2123.6	2128.9
30°	2061.8	2053.8	2040.6	2037.0	2045.0
32.5°	1969.9	1956.6	1938.1	1938.1	1939.9
35°	1852.4	1849.8	1831.2	1832.1	1833.9
37.5°	1746.4	1734.0	1723.4	1712.8	1718.1
40°	1628.9	1614.8	1600.6	1593.6	1590.9
42.5°	1502.6	1492.0	1485.8	1460.2	1454.0
45°	1378.0	1369.2	1359.5	1325.9	1305.6
47.5°	1250.8	1249.1	1241.1	1181.9	1161.6
50°	1132.5	1129.8	1101.6	1038.8	1018.5
52.5°	1020.3	1002.6	965.5	903.7	900.1
55°	907.2	878.9	825.9	785.3	783.5
57.5°	788.0	754.4	700.5	678.4	689.9
60°	692.6	641.3	579.5	582.1	600.7
62.5°	593.6	536.2	475.2	501.7	523.8
65°	510.6	449.6	385.1	437.3	467.3
67.5°	438.1	381.6	319.8	389.6	418.7
70°	378.1	332.1	272.1	345.4	378.1
72.5°	330.4	288.0	241.2	310.1	348.0
75°	286.2	248.2	219.1	273.0	315.4
77.5°	248.2	211.1	197.9	241.2	282.7
80°	208.5	174.9	173.1	210.2	241.2
82.5°	162.5	139.6	139.6	175.8	194.3
85°	114.8	100.7	98.1	128.1	129.9
87.5°	59.2	56.5	51.2	67.1	67.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)