

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: P293133

Luminaire Tested: **24GR-LD5-56-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-F1-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5348.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

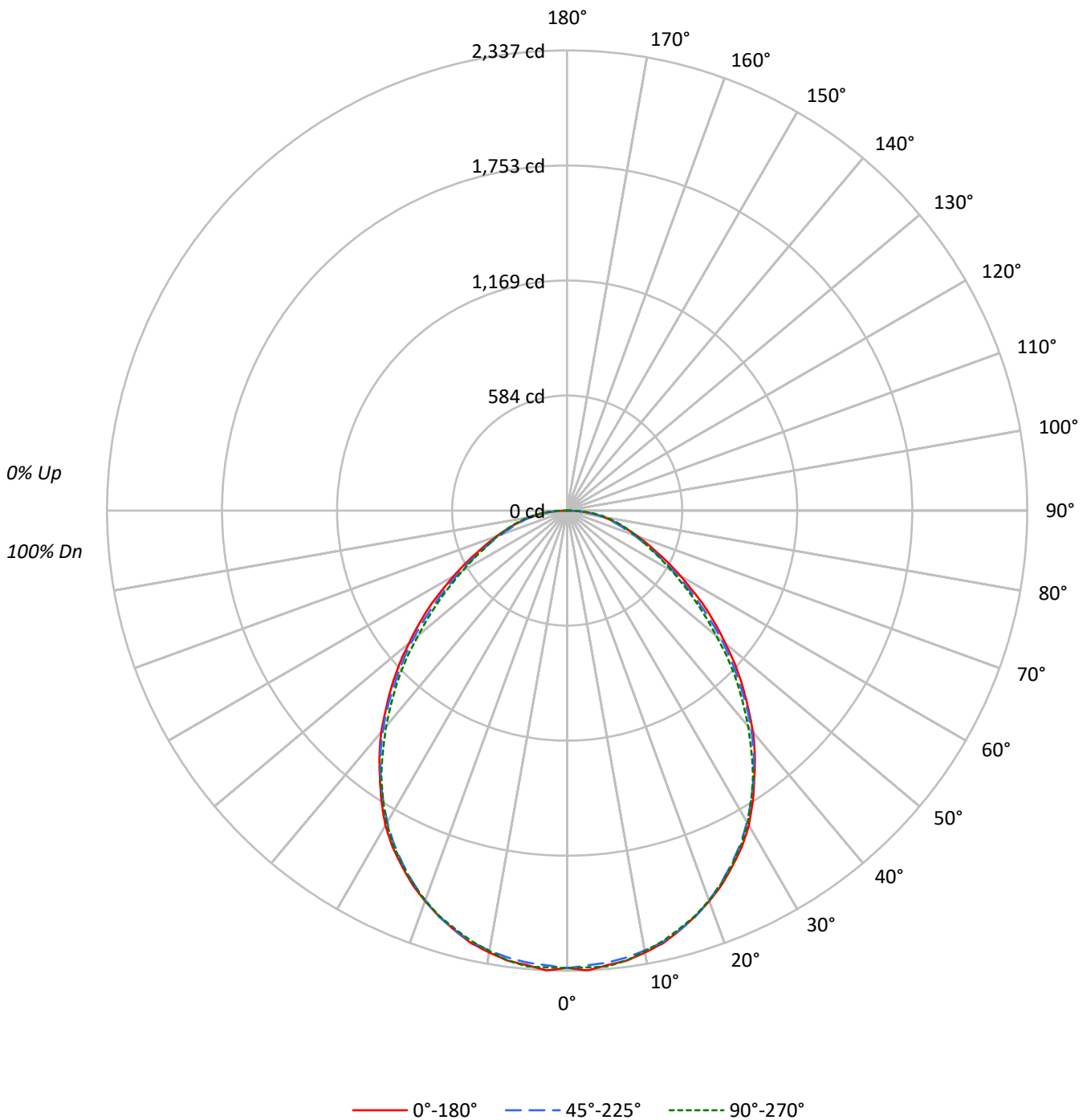
Input Watts (W): 40.827  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

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

	0°	45°	90°
0°	3126	3126	3126
5°	3130	3112	3139
10°	3114	3100	3103
15°	3075	3071	3064
20°	3023	3017	3017
25°	2953	2936	2943
30°	2867	2838	2847
35°	2723	2711	2703
40°	2579	2555	2511
45°	2397	2355	2309
50°	2196	2147	2066
55°	2005	1915	1850
60°	1787	1701	1656
65°	1608	1524	1503
70°	1493	1402	1458
75°	1428	1365	1480
80°	1427	1427	1581
85°	1482	1499	1669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	4.1
10°-20°	620.8	11.6
20°-30°	911.2	17.0
30°-40°	1030.2	19.3
40°-50°	952.1	17.8
50°-60°	733.5	13.7
60°-70°	485.7	9.1
70°-80°	289.2	5.4
80°-90°	105.9	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°	1751.4	32.7
0°-40°	2781.6	52.0
0°-60°	4467.2	83.5
0°-90°	5348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2323	2323	2323	2323	2323	
5°	2318	2318	2304	2305	2324	220
15°	2207	2203	2205	2204	2200	622
25°	1989	1983	1978	1976	1982	916
35°	1658	1656	1650	1642	1646	1037
45°	1260	1251	1238	1216	1213	970
55°	855	837	816	794	789	763
65°	505	498	479	474	472	506
75°	275	268	262	275	285	293
85°	96	90	97	107	108	102
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2323.0	2323.0	2323.0	2323.0	2323.0
2.5°	2337.4	2325.3	2312.0	2312.0	2321.9
5°	2317.5	2317.5	2304.3	2305.4	2324.1
7.5°	2305.4	2298.8	2290.0	2290.0	2304.3
10°	2278.9	2273.4	2269.0	2266.8	2271.2
12.5°	2250.2	2241.4	2244.7	2241.4	2240.3
15°	2207.2	2202.8	2205.0	2203.9	2199.5
17.5°	2160.9	2158.7	2163.1	2155.4	2158.7
20°	2111.3	2104.6	2106.8	2102.4	2106.8
22.5°	2055.0	2050.6	2045.1	2039.6	2048.4
25°	1988.8	1983.3	1977.8	1975.6	1982.2
27.5°	1922.6	1913.8	1906.1	1903.9	1913.8
30°	1845.4	1835.5	1826.7	1824.5	1832.2
32.5°	1753.9	1751.7	1740.6	1736.2	1739.5
35°	1657.9	1655.7	1650.2	1642.5	1645.8
37.5°	1566.3	1565.2	1557.5	1544.3	1535.5
40°	1468.2	1460.5	1454.9	1436.2	1429.6
42.5°	1360.1	1357.9	1347.9	1327.0	1319.3
45°	1259.7	1250.9	1237.6	1215.6	1213.4
47.5°	1156.0	1143.9	1131.7	1104.2	1103.1
50°	1049.0	1040.2	1025.8	998.3	987.2
52.5°	949.7	937.6	917.7	891.3	885.8
55°	854.9	837.2	816.3	794.2	788.7
57.5°	753.4	745.7	720.3	702.6	696.0
60°	664.0	657.4	632.1	615.5	615.5
62.5°	583.5	573.6	551.5	540.5	540.5
65°	505.2	497.5	478.7	474.3	472.1
67.5°	437.9	428.0	414.8	413.6	419.2
70°	379.5	367.3	356.3	367.3	370.6
72.5°	324.3	316.6	306.7	321.0	327.6
75°	274.7	268.0	262.5	274.7	284.6
77.5°	229.4	222.8	222.8	236.1	244.9
80°	184.2	179.8	184.2	195.2	204.1
82.5°	141.2	137.9	143.4	154.4	159.9
85°	96.0	90.5	97.1	107.0	108.1
87.5°	45.2	44.1	48.5	55.2	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)