

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: P293257

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5859.0 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

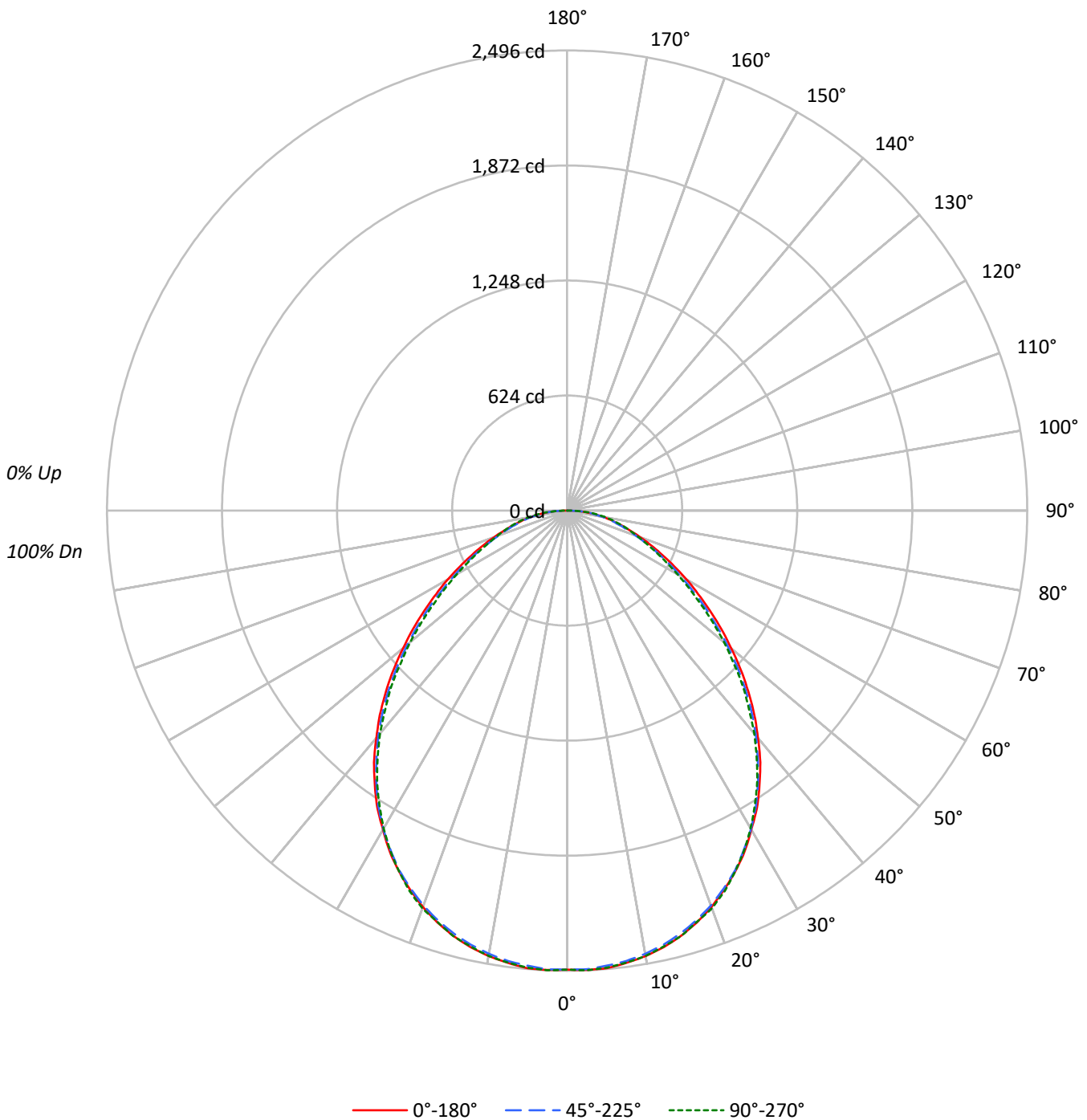
Input Watts (W): 40.083  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

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

	0°	45°	90°
0°	3350	3350	3350
5°	3366	3347	3361
10°	3352	3336	3351
15°	3326	3308	3328
20°	3277	3264	3287
25°	3206	3198	3205
30°	3105	3099	3092
35°	2987	2965	2953
40°	2828	2796	2773
45°	2645	2596	2565
50°	2431	2366	2325
55°	2217	2135	2073
60°	2013	1905	1856
65°	1813	1712	1682
70°	1661	1553	1596
75°	1552	1481	1590
80°	1540	1512	1660
85°	1570	1584	1809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	4.0
10°-20°	670.0	11.4
20°-30°	989.8	16.9
30°-40°	1125.3	19.2
40°-50°	1050.9	17.9
50°-60°	817.2	13.9
60°-70°	542.3	9.3
70°-80°	313.8	5.4
80°-90°	114.1	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°	1895.4	32.4
0°-40°	3020.7	51.6
0°-60°	4888.8	83.4
0°-90°	5859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2490	2490	2490	2490	2490	
5°	2492	2479	2478	2483	2488	236
15°	2388	2376	2375	2374	2389	673
25°	2160	2150	2154	2149	2159	993
35°	1819	1810	1805	1792	1798	1136
45°	1390	1379	1364	1347	1348	1071
55°	945	931	910	886	884	848
65°	570	552	538	528	528	569
75°	299	291	285	298	306	319
85°	102	100	103	116	117	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2490.1	2490.1	2490.1	2490.1	2490.1
2.5°	2493.7	2486.4	2490.1	2487.3	2495.6
5°	2491.9	2479.1	2478.2	2482.7	2488.2
7.5°	2474.5	2460.8	2463.5	2463.5	2472.7
10°	2453.4	2439.7	2441.5	2442.5	2452.5
12.5°	2425.1	2411.3	2412.2	2411.3	2421.4
15°	2387.5	2375.6	2374.7	2373.8	2389.3
17.5°	2341.7	2325.2	2330.7	2331.6	2339.9
20°	2288.6	2275.8	2279.4	2278.5	2295.9
22.5°	2225.4	2216.2	2219.0	2217.2	2233.6
25°	2159.5	2150.3	2154.0	2149.4	2158.6
27.5°	2085.3	2078.9	2075.2	2072.5	2078.9
30°	1998.3	1994.6	1994.6	1982.7	1990.0
32.5°	1915.9	1904.0	1904.0	1899.4	1894.8
35°	1818.8	1809.6	1805.1	1792.2	1797.7
37.5°	1721.7	1700.7	1698.8	1688.7	1688.7
40°	1610.0	1598.1	1591.7	1580.7	1578.8
42.5°	1503.8	1491.8	1480.9	1462.5	1458.9
45°	1390.2	1379.2	1364.5	1347.1	1348.1
47.5°	1277.5	1262.0	1248.2	1227.2	1224.4
50°	1161.2	1150.3	1130.1	1111.8	1110.9
52.5°	1052.3	1034.9	1016.5	994.6	994.6
55°	945.1	931.4	910.3	886.5	883.8
57.5°	842.5	829.7	805.9	788.5	783.9
60°	748.2	729.9	707.9	693.3	689.6
62.5°	653.9	637.4	620.9	606.3	605.3
65°	569.6	552.2	537.6	527.5	528.4
67.5°	493.6	479.0	462.5	459.7	460.7
70°	422.2	406.6	394.7	401.1	405.7
72.5°	354.4	346.2	337.9	347.1	353.5
75°	298.6	291.2	284.8	297.6	305.9
77.5°	247.3	241.8	240.9	251.8	259.2
80°	198.7	192.3	195.1	207.9	214.3
82.5°	151.1	146.5	147.4	163.0	167.6
85°	101.7	99.8	102.6	116.3	117.2
87.5°	54.0	54.0	55.9	64.1	61.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)