

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: P293401

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293401
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-LD5-72-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6787.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

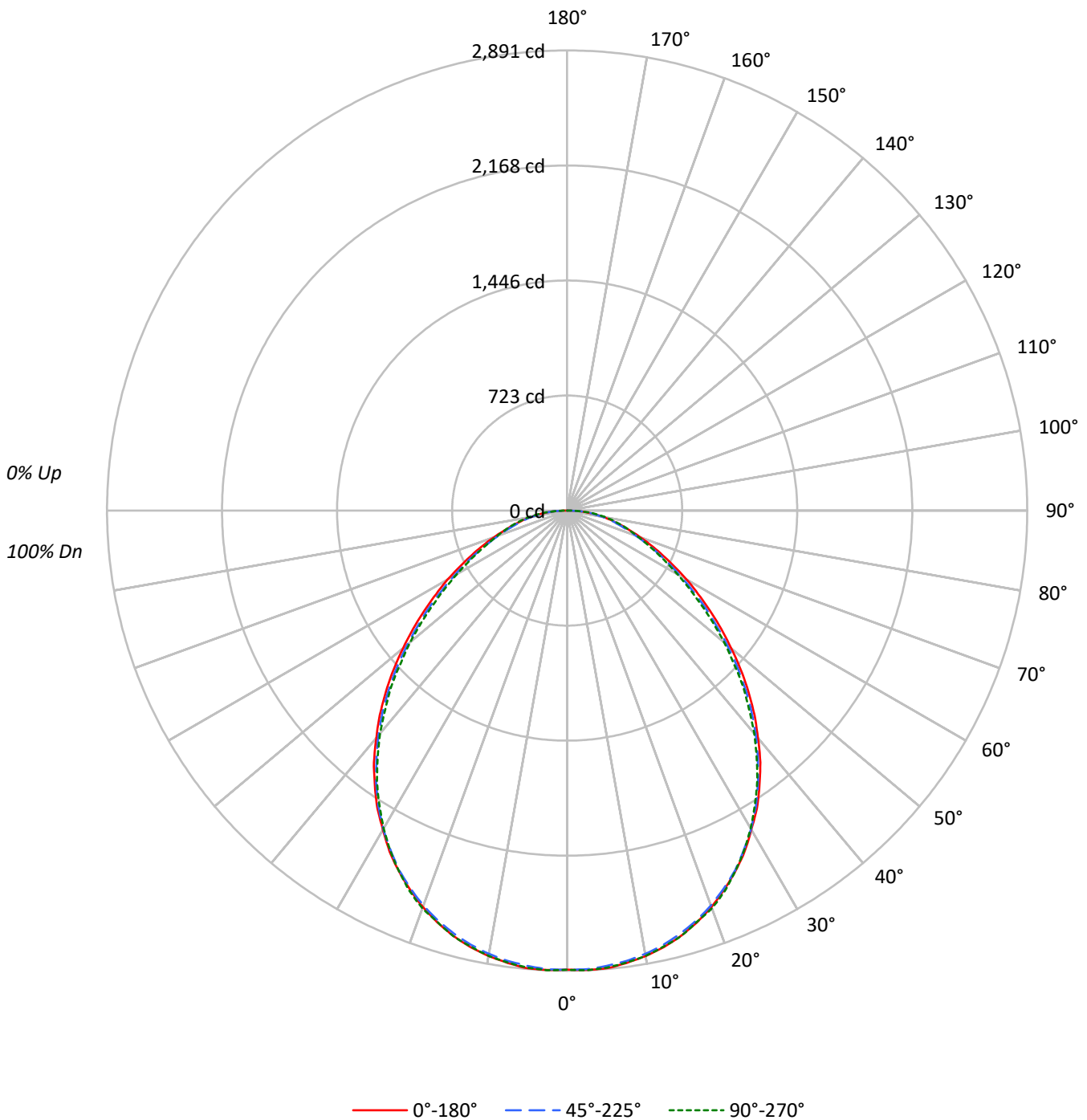
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3881	3881	3881
5°	3899	3877	3893
10°	3883	3864	3882
15°	3852	3832	3855
20°	3796	3781	3808
25°	3714	3704	3712
30°	3596	3590	3581
35°	3461	3435	3421
40°	3276	3238	3212
45°	3064	3008	2971
50°	2816	2740	2694
55°	2568	2474	2401
60°	2332	2207	2150
65°	2101	1982	1949
70°	1924	1799	1849
75°	1798	1715	1842
80°	1784	1751	1923
85°	1819	1834	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	4.0
10°-20°	776.1	11.4
20°-30°	1146.6	16.9
30°-40°	1303.5	19.2
40°-50°	1217.3	17.9
50°-60°	946.7	13.9
60°-70°	628.1	9.3
70°-80°	363.5	5.4
80°-90°	132.2	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°	2195.7	32.4
0°-40°	3499.2	51.6
0°-60°	5663.2	83.4
0°-90°	6787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2887	2872	2871	2876	2882	274
15°	2766	2752	2751	2750	2768	779
25°	2502	2491	2495	2490	2500	1150
35°	2107	2096	2091	2076	2082	1315
45°	1610	1598	1581	1560	1562	1241
55°	1095	1079	1054	1027	1024	982
65°	660	640	623	611	612	659
75°	346	337	330	345	354	370
85°	118	116	119	135	136	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	2888.7	2880.2	2884.5	2881.3	2890.8
5°	2886.6	2871.7	2870.7	2876.0	2882.4
7.5°	2866.4	2850.5	2853.7	2853.7	2864.3
10°	2842.0	2826.1	2828.2	2829.3	2841.0
12.5°	2809.2	2793.2	2794.3	2793.2	2804.9
15°	2765.7	2751.9	2750.8	2749.7	2767.8
17.5°	2712.6	2693.5	2699.9	2700.9	2710.5
20°	2651.1	2636.2	2640.5	2639.4	2659.6
22.5°	2577.9	2567.3	2570.5	2568.3	2587.4
25°	2501.5	2490.9	2495.1	2489.8	2500.4
27.5°	2415.6	2408.1	2403.9	2400.7	2408.1
30°	2314.8	2310.5	2310.5	2296.8	2305.2
32.5°	2219.3	2205.5	2205.5	2200.2	2194.9
35°	2106.9	2096.3	2091.0	2076.1	2082.5
37.5°	1994.4	1970.0	1967.9	1956.2	1956.2
40°	1865.0	1851.2	1843.8	1831.0	1828.9
42.5°	1741.9	1728.1	1715.4	1694.2	1689.9
45°	1610.4	1597.7	1580.7	1560.5	1561.6
47.5°	1479.9	1461.9	1446.0	1421.6	1418.4
50°	1345.2	1332.4	1309.1	1287.9	1286.8
52.5°	1218.9	1198.8	1177.6	1152.1	1152.1
55°	1094.8	1078.9	1054.5	1026.9	1023.7
57.5°	976.0	961.1	933.6	913.4	908.1
60°	866.7	845.5	820.0	803.1	798.8
62.5°	757.5	738.4	719.3	702.3	701.2
65°	659.9	639.7	622.7	611.1	612.1
67.5°	571.8	554.8	535.7	532.6	533.6
70°	489.1	471.0	457.2	464.7	470.0
72.5°	410.6	401.0	391.5	402.1	409.5
75°	345.8	337.4	329.9	344.8	354.3
77.5°	286.4	280.1	279.0	291.7	300.2
80°	230.2	222.8	226.0	240.8	248.2
82.5°	175.0	169.7	170.8	188.8	194.1
85°	117.8	115.6	118.8	134.7	135.8
87.5°	62.6	62.6	64.7	74.3	71.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)