

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: P293277

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293277
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7557.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

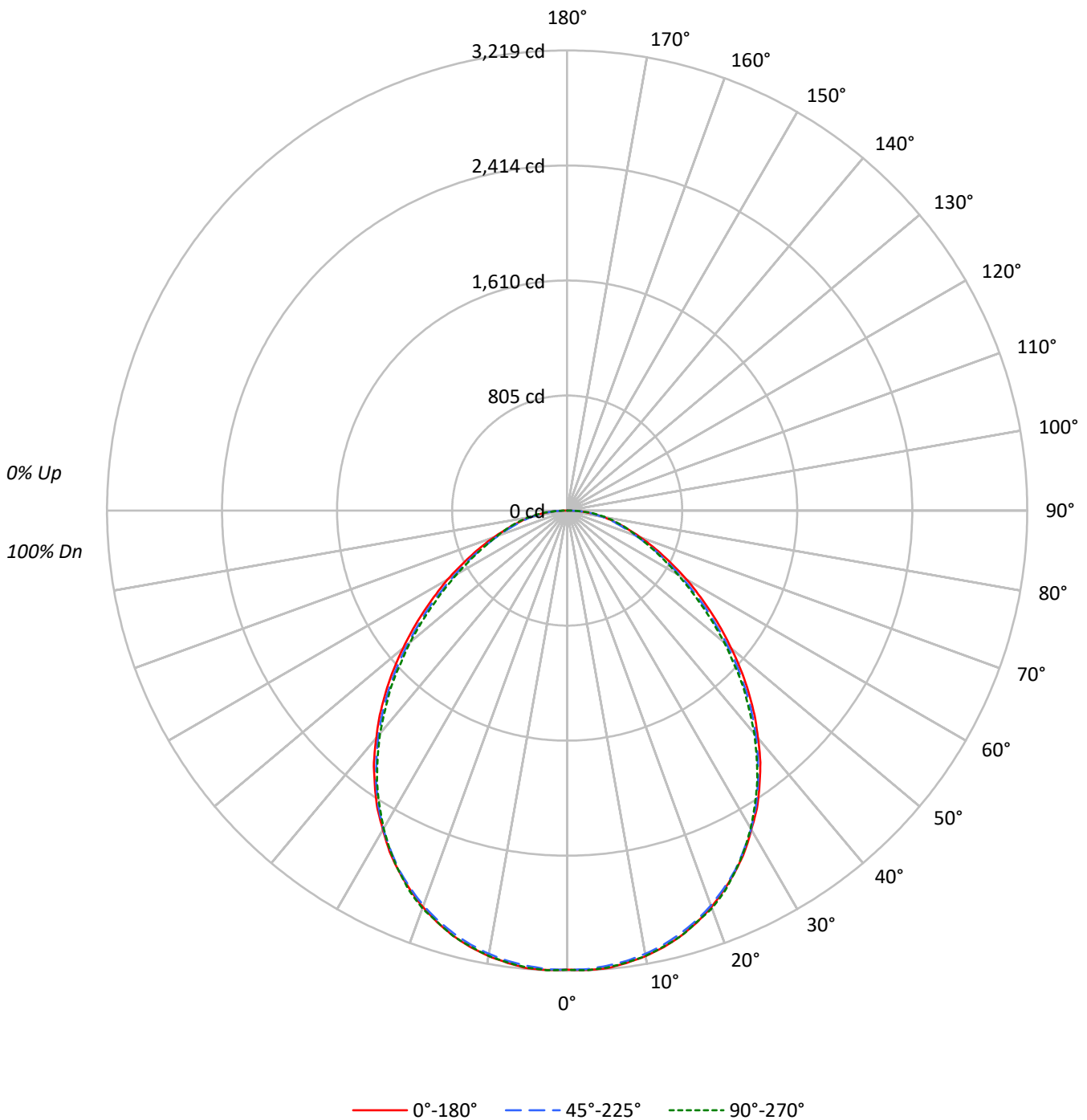
Input Watts (W): 54.87
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57		67	61	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36		47	40	36		46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32		43	37	32		42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	29		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4321	4321	4321
5°	4341	4317	4335
10°	4323	4302	4322
15°	4289	4266	4293
20°	4227	4210	4240
25°	4135	4124	4133
30°	4004	3997	3988
35°	3853	3824	3809
40°	3647	3606	3577
45°	3412	3349	3308
50°	3135	3051	2999
55°	2860	2754	2674
60°	2597	2457	2394
65°	2339	2208	2170
70°	2142	2003	2059
75°	2002	1910	2051
80°	1986	1949	2142
85°	2024	2042	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	4.0
10°-20°	864.2	11.4
20°-30°	1276.6	16.9
30°-40°	1451.4	19.2
40°-50°	1355.4	17.9
50°-60°	1054.1	13.9
60°-70°	699.4	9.3
70°-80°	404.7	5.4
80°-90°	147.2	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°	2444.8	32.4
0°-40°	3896.2	51.6
0°-60°	6305.7	83.4
0°-90°	7557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3212	3212	3212	3212	3212	
5°	3214	3198	3196	3202	3209	305
15°	3079	3064	3063	3062	3082	868
25°	2785	2774	2778	2772	2784	1281
35°	2346	2334	2328	2312	2319	1465
45°	1793	1779	1760	1738	1739	1382
55°	1219	1201	1174	1143	1140	1093
65°	735	712	693	680	682	734
75°	385	376	367	384	394	412
85°	131	129	132	150	151	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3211.7	3211.7	3211.7	3211.7	3211.7
2.5°	3216.4	3207.0	3211.7	3208.2	3218.8
5°	3214.1	3197.5	3196.4	3202.3	3209.4
7.5°	3191.6	3173.9	3177.5	3177.5	3189.3
10°	3164.5	3146.8	3149.1	3150.3	3163.3
12.5°	3127.9	3110.1	3111.3	3110.1	3123.1
15°	3079.4	3064.1	3062.9	3061.7	3081.8
17.5°	3020.4	2999.1	3006.2	3007.4	3018.0
20°	2951.9	2935.3	2940.0	2938.9	2961.3
22.5°	2870.4	2858.5	2862.1	2859.7	2881.0
25°	2785.3	2773.5	2778.2	2772.3	2784.1
27.5°	2689.6	2681.4	2676.6	2673.1	2681.4
30°	2577.4	2572.7	2572.7	2557.3	2566.8
32.5°	2471.1	2455.7	2455.7	2449.8	2443.9
35°	2345.9	2334.1	2328.2	2311.6	2318.7
37.5°	2220.7	2193.5	2191.2	2178.2	2178.2
40°	2076.6	2061.2	2053.0	2038.8	2036.4
42.5°	1939.6	1924.2	1910.0	1886.4	1881.7
45°	1793.1	1778.9	1760.0	1737.6	1738.7
47.5°	1647.8	1627.7	1610.0	1582.8	1579.3
50°	1497.8	1483.6	1457.6	1434.0	1432.8
52.5°	1357.2	1334.8	1311.1	1282.8	1282.8
55°	1219.0	1201.3	1174.1	1143.4	1139.9
57.5°	1086.7	1070.2	1039.5	1017.0	1011.1
60°	965.1	941.4	913.1	894.2	889.5
62.5°	843.4	822.1	800.9	782.0	780.8
65°	734.7	712.3	693.4	680.4	681.6
67.5°	636.7	617.8	596.5	593.0	594.2
70°	544.5	524.5	509.1	517.4	523.3
72.5°	457.1	446.5	435.9	447.7	455.9
75°	385.1	375.6	367.4	383.9	394.5
77.5°	318.9	311.8	310.7	324.8	334.3
80°	256.3	248.1	251.6	268.1	276.4
82.5°	194.9	189.0	190.2	210.3	216.2
85°	131.1	128.8	132.3	150.0	151.2
87.5°	69.7	69.7	72.1	82.7	79.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)