

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: P293274

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293274
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7444.0 lumens
Efficiency: N/A
Efficacy: 138.5 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

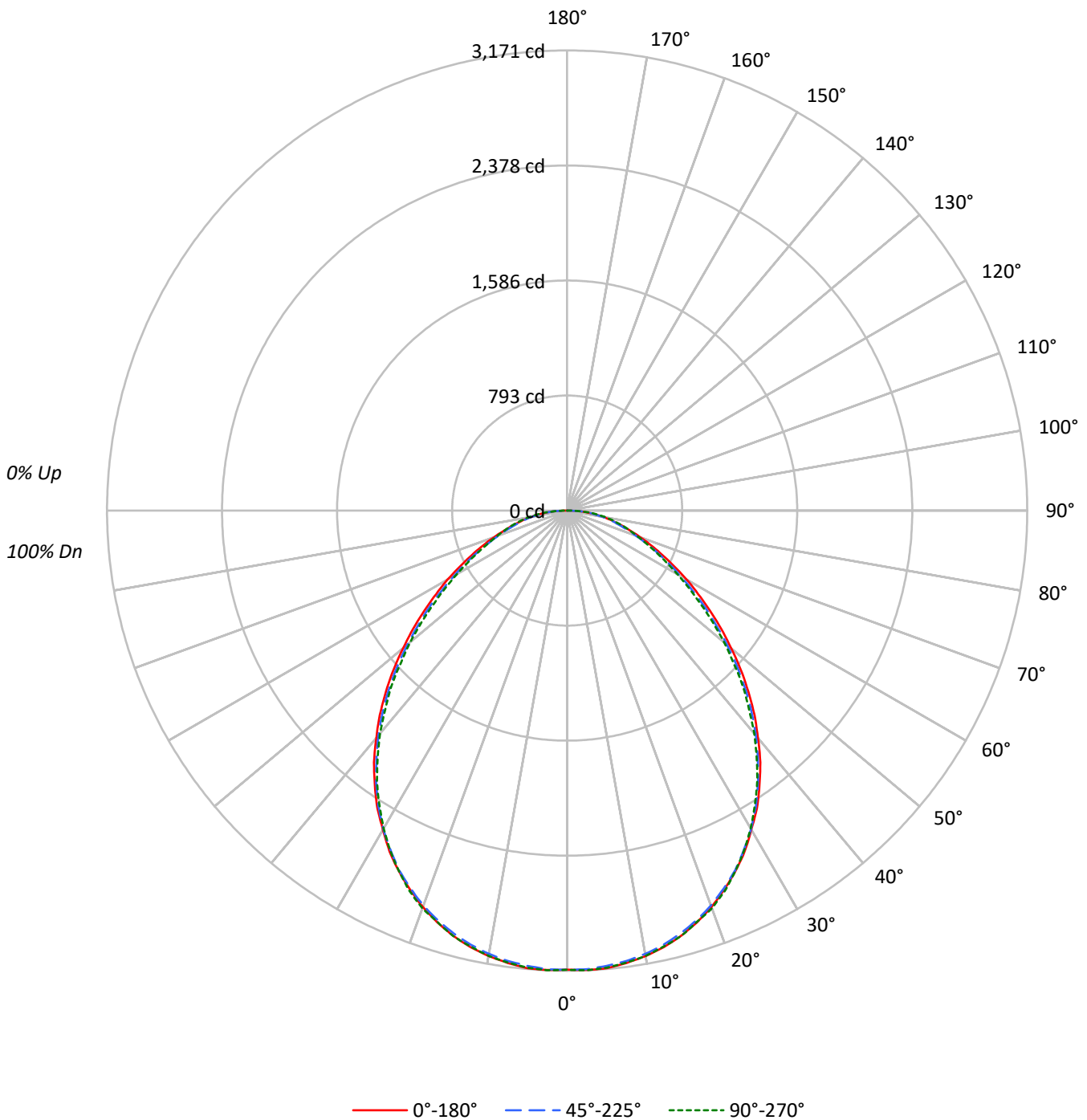
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	4257	4257	4257
5°	4276	4253	4270
10°	4259	4238	4257
15°	4225	4203	4229
20°	4163	4147	4177
25°	4073	4063	4071
30°	3945	3937	3928
35°	3796	3767	3752
40°	3593	3552	3523
45°	3361	3299	3259
50°	3088	3005	2954
55°	2817	2713	2634
60°	2558	2420	2358
65°	2304	2174	2138
70°	2110	1973	2028
75°	1972	1881	2020
80°	1956	1920	2110
85°	1995	2012	2299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	4.0
10°-20°	851.2	11.4
20°-30°	1257.6	16.9
30°-40°	1429.7	19.2
40°-50°	1335.2	17.9
50°-60°	1038.3	13.9
60°-70°	688.9	9.3
70°-80°	398.7	5.4
80°-90°	145.0	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
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0°-30°	2408.2	32.4
0°-40°	3837.9	51.6
0°-60°	6211.4	83.4
0°-90°	7444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3164	3164	3164	3164	3164	
5°	3166	3150	3149	3154	3161	300
15°	3033	3018	3017	3016	3036	855
25°	2744	2732	2737	2731	2742	1261
35°	2311	2299	2293	2277	2284	1443
45°	1766	1752	1734	1712	1713	1361
55°	1201	1183	1157	1126	1123	1077
65°	724	702	683	670	671	723
75°	379	370	362	378	389	406
85°	129	127	130	148	149	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3168.4	3159.0	3163.7	3160.2	3170.7
5°	3166.0	3149.7	3148.6	3154.4	3161.4
7.5°	3143.9	3126.5	3130.0	3130.0	3141.6
10°	3117.2	3099.7	3102.0	3103.2	3116.0
12.5°	3081.1	3063.6	3064.8	3063.6	3076.4
15°	3033.4	3018.3	3017.1	3015.9	3035.7
17.5°	2975.2	2954.3	2961.2	2962.4	2972.9
20°	2907.7	2891.4	2896.1	2894.9	2917.0
22.5°	2827.4	2815.8	2819.3	2817.0	2837.9
25°	2743.7	2732.0	2736.7	2730.9	2742.5
27.5°	2649.4	2641.3	2636.6	2633.1	2641.3
30°	2538.9	2534.2	2534.2	2519.1	2528.4
32.5°	2434.2	2419.0	2419.0	2413.2	2407.4
35°	2310.8	2299.2	2293.4	2277.1	2284.1
37.5°	2187.5	2160.7	2158.4	2145.6	2145.6
40°	2045.5	2030.4	2022.3	2008.3	2006.0
42.5°	1910.6	1895.4	1881.5	1858.2	1853.5
45°	1766.3	1752.3	1733.7	1711.6	1712.7
47.5°	1623.2	1603.4	1585.9	1559.2	1555.7
50°	1475.4	1461.4	1435.8	1412.6	1411.4
52.5°	1336.9	1314.8	1291.5	1263.6	1263.6
55°	1200.8	1183.3	1156.6	1126.3	1122.8
57.5°	1070.5	1054.2	1023.9	1001.8	996.0
60°	950.6	927.4	899.4	880.8	876.2
62.5°	830.8	809.8	788.9	770.3	769.1
65°	723.7	701.6	683.0	670.2	671.4
67.5°	627.2	608.5	587.6	584.1	585.3
70°	536.4	516.6	501.5	509.6	515.5
72.5°	450.3	439.8	429.4	441.0	449.1
75°	379.3	370.0	361.9	378.2	388.6
77.5°	314.2	307.2	306.0	320.0	329.3
80°	252.5	244.3	247.8	264.1	272.3
82.5°	192.0	186.2	187.3	207.1	212.9
85°	129.2	126.8	130.3	147.8	148.9
87.5°	68.6	68.6	71.0	81.4	78.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)