

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: P293276

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293276
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7538.0 lumens
Efficiency: N/A
Efficacy: 139.5 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

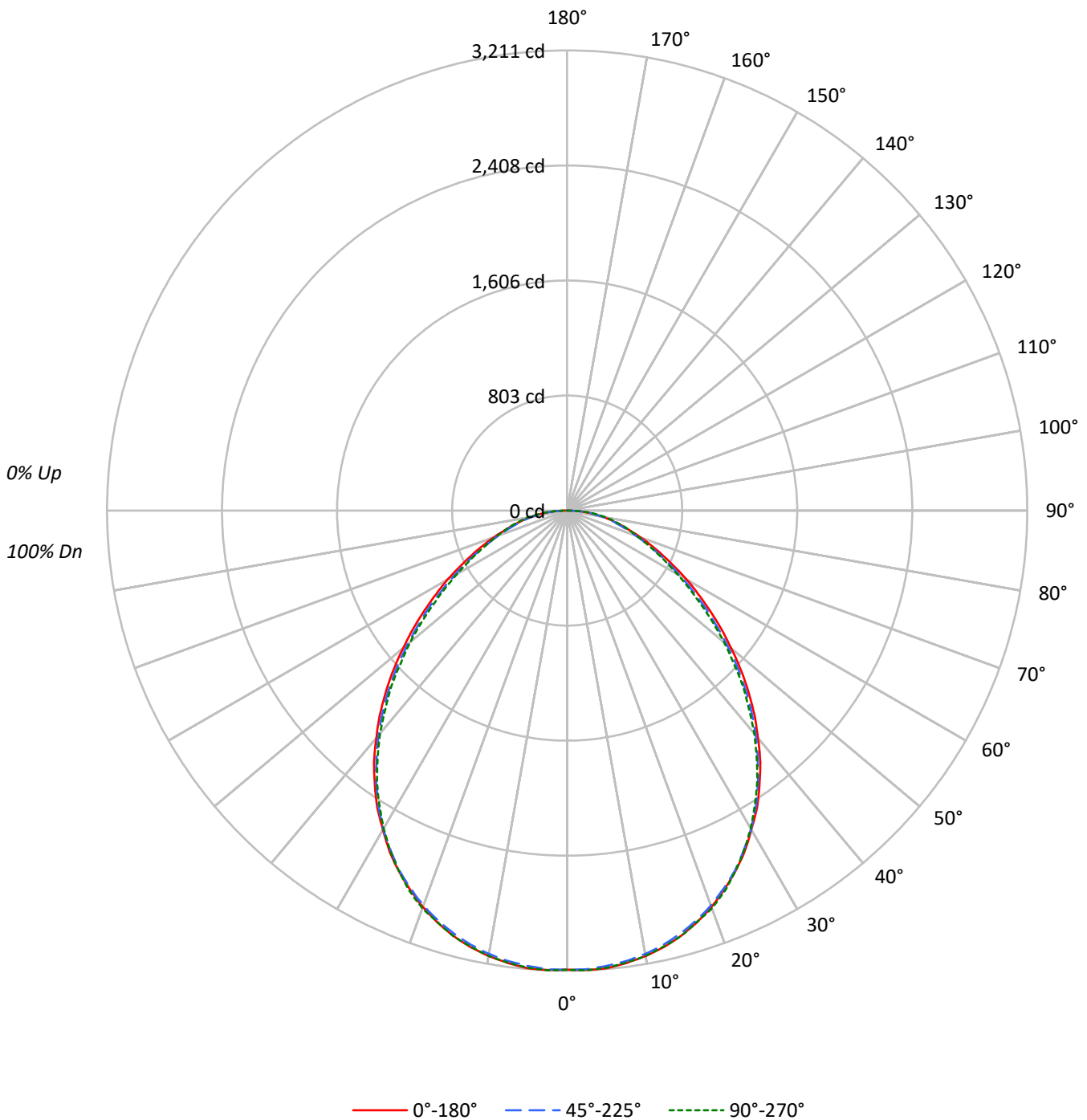
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4310	4310	4310
5°	4330	4306	4324
10°	4313	4292	4311
15°	4279	4256	4282
20°	4216	4199	4230
25°	4125	4114	4123
30°	3994	3987	3978
35°	3844	3814	3799
40°	3638	3597	3568
45°	3403	3341	3300
50°	3127	3044	2992
55°	2852	2747	2667
60°	2590	2451	2387
65°	2333	2202	2164
70°	2137	1998	2054
75°	1997	1905	2046
80°	1981	1945	2136
85°	2019	2038	2328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	4.0
10°-20°	862.0	11.4
20°-30°	1273.4	16.9
30°-40°	1447.8	19.2
40°-50°	1352.0	17.9
50°-60°	1051.4	13.9
60°-70°	697.7	9.3
70°-80°	403.7	5.4
80°-90°	146.8	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°	2438.6	32.4
0°-40°	3886.4	51.6
0°-60°	6289.8	83.4
0°-90°	7538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3204	3204	3204	3204	3204	
5°	3206	3190	3188	3194	3201	304
15°	3072	3056	3055	3054	3074	865
25°	2778	2766	2771	2765	2777	1277
35°	2340	2328	2322	2306	2313	1461
45°	1789	1774	1756	1733	1734	1378
55°	1216	1198	1171	1140	1137	1090
65°	733	710	692	679	680	732
75°	384	375	366	383	394	411
85°	131	128	132	150	151	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3203.6	3203.6	3203.6	3203.6	3203.6
2.5°	3208.4	3198.9	3203.6	3200.1	3210.7
5°	3206.0	3189.5	3188.3	3194.2	3201.3
7.5°	3183.6	3165.9	3169.5	3169.5	3181.3
10°	3156.5	3138.8	3141.2	3142.4	3155.3
12.5°	3120.0	3102.3	3103.5	3102.3	3115.3
15°	3071.7	3056.4	3055.2	3054.0	3074.0
17.5°	3012.8	2991.6	2998.6	2999.8	3010.4
20°	2944.4	2927.9	2932.7	2931.5	2953.9
22.5°	2863.1	2851.4	2854.9	2852.5	2873.7
25°	2778.3	2766.5	2771.2	2765.3	2777.1
27.5°	2682.9	2674.6	2669.9	2666.4	2674.6
30°	2570.9	2566.2	2566.2	2550.9	2560.3
32.5°	2464.9	2449.6	2449.6	2443.7	2437.8
35°	2340.0	2328.2	2322.3	2305.8	2312.9
37.5°	2215.1	2188.0	2185.6	2172.7	2172.7
40°	2071.4	2056.0	2047.8	2033.7	2031.3
42.5°	1934.7	1919.4	1905.2	1881.7	1876.9
45°	1788.6	1774.4	1755.6	1733.2	1734.4
47.5°	1643.7	1623.6	1605.9	1578.8	1575.3
50°	1494.0	1479.9	1454.0	1430.4	1429.2
52.5°	1353.8	1331.4	1307.9	1279.6	1279.6
55°	1215.9	1198.3	1171.2	1140.5	1137.0
57.5°	1084.0	1067.5	1036.9	1014.5	1008.6
60°	962.6	939.1	910.8	891.9	887.2
62.5°	841.3	820.1	798.9	780.0	778.8
65°	732.9	710.5	691.6	678.7	679.8
67.5°	635.1	616.2	595.0	591.5	592.7
70°	543.2	523.1	507.8	516.1	522.0
72.5°	456.0	445.4	434.8	446.6	454.8
75°	384.1	374.7	366.4	382.9	393.5
77.5°	318.1	311.1	309.9	324.0	333.4
80°	255.7	247.4	251.0	267.5	275.7
82.5°	194.4	188.5	189.7	209.7	215.6
85°	130.8	128.4	132.0	149.6	150.8
87.5°	69.5	69.5	71.9	82.5	78.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)