

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: P293199

Luminaire Tested: **24GR-LD5-72-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293199
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-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7664.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

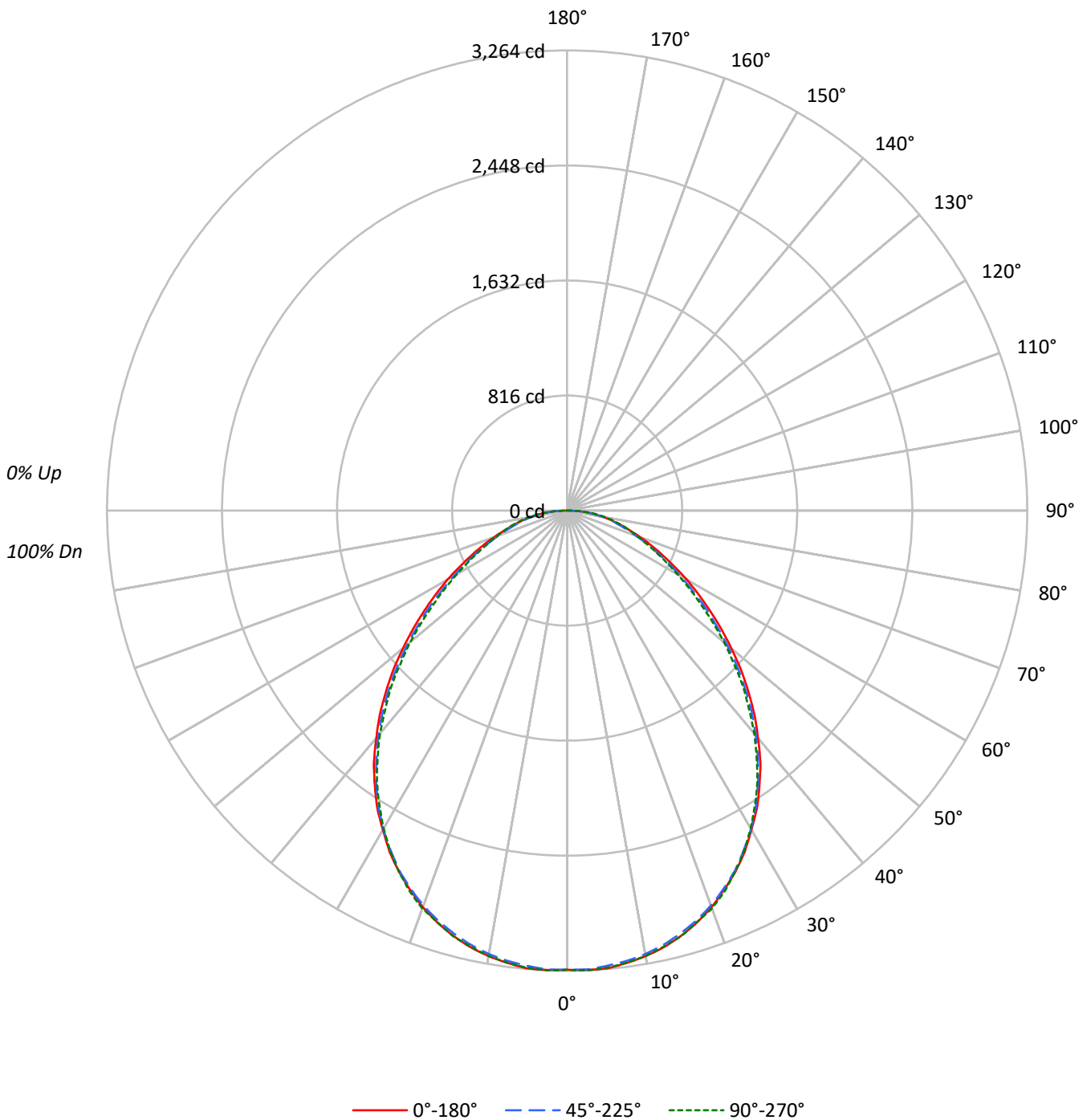
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4383	4383	4383
5°	4403	4378	4396
10°	4385	4363	4383
15°	4350	4327	4354
20°	4286	4269	4300
25°	4194	4183	4192
30°	4061	4054	4044
35°	3908	3878	3863
40°	3699	3657	3627
45°	3460	3396	3355
50°	3180	3094	3042
55°	2900	2793	2712
60°	2634	2492	2427
65°	2372	2239	2201
70°	2173	2031	2088
75°	2030	1937	2080
80°	2015	1977	2172
85°	2053	2072	2367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	4.0
10°-20°	876.4	11.4
20°-30°	1294.7	16.9
30°-40°	1472.0	19.2
40°-50°	1374.6	17.9
50°-60°	1069.0	13.9
60°-70°	709.3	9.3
70°-80°	410.5	5.4
80°-90°	149.3	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°	2479.4	32.4
0°-40°	3951.3	51.6
0°-60°	6394.9	83.4
0°-90°	7664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3257	3257	3257	3257	3257	
5°	3260	3243	3242	3248	3255	309
15°	3123	3108	3106	3105	3125	880
25°	2825	2813	2818	2812	2824	1299
35°	2379	2367	2361	2344	2352	1485
45°	1818	1804	1785	1762	1763	1401
55°	1236	1218	1191	1160	1156	1109
65°	745	722	703	690	691	745
75°	390	381	373	389	400	418
85°	133	131	134	152	153	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3257.2	3257.2	3257.2	3257.2	3257.2
2.5°	3262.0	3252.4	3257.2	3253.6	3264.4
5°	3259.6	3242.8	3241.6	3247.6	3254.8
7.5°	3236.8	3218.9	3222.5	3222.5	3234.4
10°	3209.3	3191.3	3193.7	3194.9	3208.1
12.5°	3172.1	3154.2	3155.4	3154.2	3167.4
15°	3123.0	3107.5	3106.3	3105.1	3125.4
17.5°	3063.1	3041.6	3048.8	3050.0	3060.7
20°	2993.7	2976.9	2981.7	2980.5	3003.2
22.5°	2911.0	2899.0	2902.6	2900.2	2921.8
25°	2824.7	2812.8	2817.6	2811.6	2823.5
27.5°	2727.7	2719.3	2714.5	2710.9	2719.3
30°	2613.9	2609.1	2609.1	2593.5	2603.1
32.5°	2506.1	2490.5	2490.5	2484.5	2478.5
35°	2379.1	2367.1	2361.1	2344.4	2351.6
37.5°	2252.1	2224.6	2222.2	2209.0	2209.0
40°	2106.0	2090.4	2082.0	2067.6	2065.2
42.5°	1967.0	1951.4	1937.1	1913.1	1908.3
45°	1818.5	1804.1	1784.9	1762.2	1763.4
47.5°	1671.1	1650.8	1632.8	1605.2	1601.6
50°	1519.0	1504.6	1478.3	1454.3	1453.1
52.5°	1376.4	1353.7	1329.7	1301.0	1301.0
55°	1236.3	1218.3	1190.8	1159.6	1156.0
57.5°	1102.1	1085.3	1054.2	1031.4	1025.4
60°	978.7	954.8	926.0	906.8	902.0
62.5°	855.3	833.8	812.2	793.0	791.8
65°	745.1	722.4	703.2	690.0	691.2
67.5°	645.7	626.5	605.0	601.4	602.6
70°	552.3	531.9	516.3	524.7	530.7
72.5°	463.6	452.8	442.0	454.0	462.4
75°	390.5	380.9	372.6	389.3	400.1
77.5°	323.4	316.3	315.1	329.4	339.0
80°	260.0	251.6	255.2	271.9	280.3
82.5°	197.7	191.7	192.9	213.2	219.2
85°	133.0	130.6	134.2	152.1	153.3
87.5°	70.7	70.7	73.1	83.9	80.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)