

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: P293331

Luminaire Tested: **24GR-LD5-85-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293331
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-LD5-85-F125-UNV-L93050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7742.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

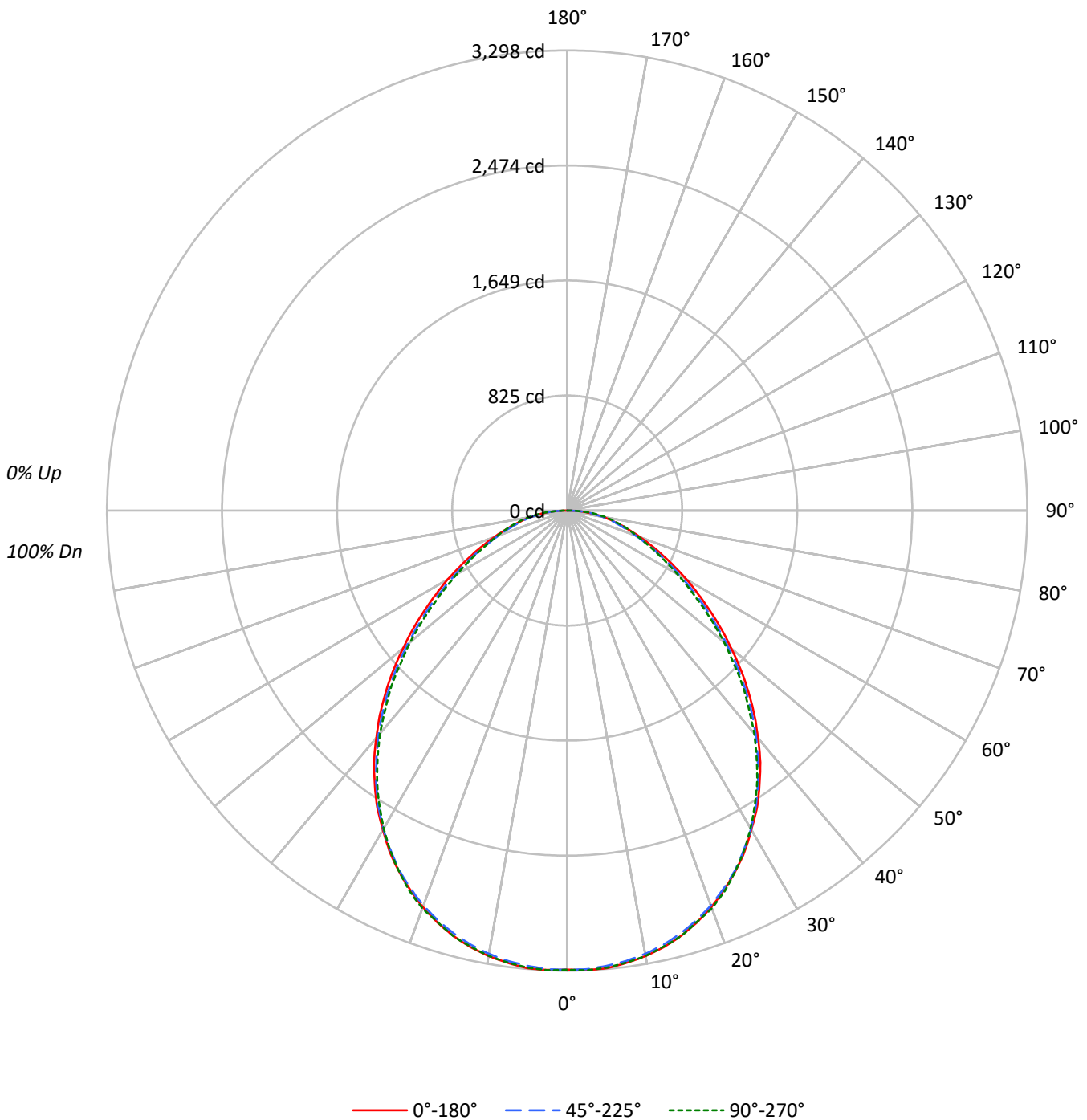
Input Watts (W): 65.023926
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4427	4427	4427
5°	4447	4423	4441
10°	4429	4408	4428
15°	4394	4371	4398
20°	4330	4313	4344
25°	4236	4225	4234
30°	4102	4095	4085
35°	3948	3918	3902
40°	3737	3694	3664
45°	3495	3431	3389
50°	3212	3126	3073
55°	2930	2822	2739
60°	2661	2517	2452
65°	2396	2261	2223
70°	2195	2052	2109
75°	2051	1957	2101
80°	2035	1998	2194
85°	2073	2092	2391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.4	4.0
10°-20°	885.3	11.4
20°-30°	1307.9	16.9
30°-40°	1486.9	19.2
40°-50°	1388.6	17.9
50°-60°	1079.9	13.9
60°-70°	716.5	9.3
70°-80°	414.7	5.4
80°-90°	150.8	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°	2504.6	32.4
0°-40°	3991.6	51.6
0°-60°	6460.0	83.4
0°-90°	7742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3290	3290	3290	3290	3290	
5°	3293	3276	3275	3281	3288	312
15°	3155	3139	3138	3137	3157	889
25°	2854	2841	2846	2840	2852	1312
35°	2403	2391	2385	2368	2376	1500
45°	1837	1822	1803	1780	1781	1415
55°	1249	1231	1203	1171	1168	1120
65°	753	730	710	697	698	752
75°	394	385	376	393	404	422
85°	134	132	136	154	155	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3290.3	3290.3	3290.3	3290.3	3290.3
2.5°	3295.2	3285.5	3290.3	3286.7	3297.6
5°	3292.8	3275.8	3274.6	3280.7	3287.9
7.5°	3269.8	3251.6	3255.3	3255.3	3267.4
10°	3241.9	3223.8	3226.2	3227.4	3240.7
12.5°	3204.4	3186.3	3187.5	3186.3	3199.6
15°	3154.8	3139.1	3137.9	3136.7	3157.2
17.5°	3094.3	3072.5	3079.8	3081.0	3091.9
20°	3024.1	3007.2	3012.0	3010.8	3033.8
22.5°	2940.6	2928.5	2932.2	2929.7	2951.5
25°	2853.5	2841.4	2846.2	2840.2	2852.3
27.5°	2755.5	2747.0	2742.2	2738.5	2747.0
30°	2640.5	2635.7	2635.7	2619.9	2629.6
32.5°	2531.6	2515.9	2515.9	2509.8	2503.8
35°	2403.3	2391.2	2385.2	2368.2	2375.5
37.5°	2275.0	2247.2	2244.8	2231.5	2231.5
40°	2127.4	2111.7	2103.2	2088.7	2086.3
42.5°	1987.0	1971.3	1956.8	1932.6	1927.7
45°	1837.0	1822.5	1803.1	1780.1	1781.3
47.5°	1688.1	1667.6	1649.4	1621.6	1617.9
50°	1534.4	1519.9	1493.3	1469.1	1467.9
52.5°	1390.4	1367.4	1343.2	1314.2	1314.2
55°	1248.9	1230.7	1202.9	1171.4	1167.8
57.5°	1113.3	1096.4	1064.9	1041.9	1035.9
60°	988.7	964.5	935.4	916.1	911.2
62.5°	864.0	842.3	820.5	801.1	799.9
65°	752.7	729.7	710.3	697.0	698.2
67.5°	652.3	632.9	611.1	607.5	608.7
70°	557.9	537.3	521.6	530.0	536.1
72.5°	468.3	457.4	446.5	458.6	467.1
75°	394.5	384.8	376.4	393.3	404.2
77.5°	326.7	319.5	318.3	332.8	342.5
80°	262.6	254.1	257.8	274.7	283.2
82.5°	199.7	193.6	194.8	215.4	221.5
85°	134.3	131.9	135.5	153.7	154.9
87.5°	71.4	71.4	73.8	84.7	81.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)