

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: P293279

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293279
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-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7826.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

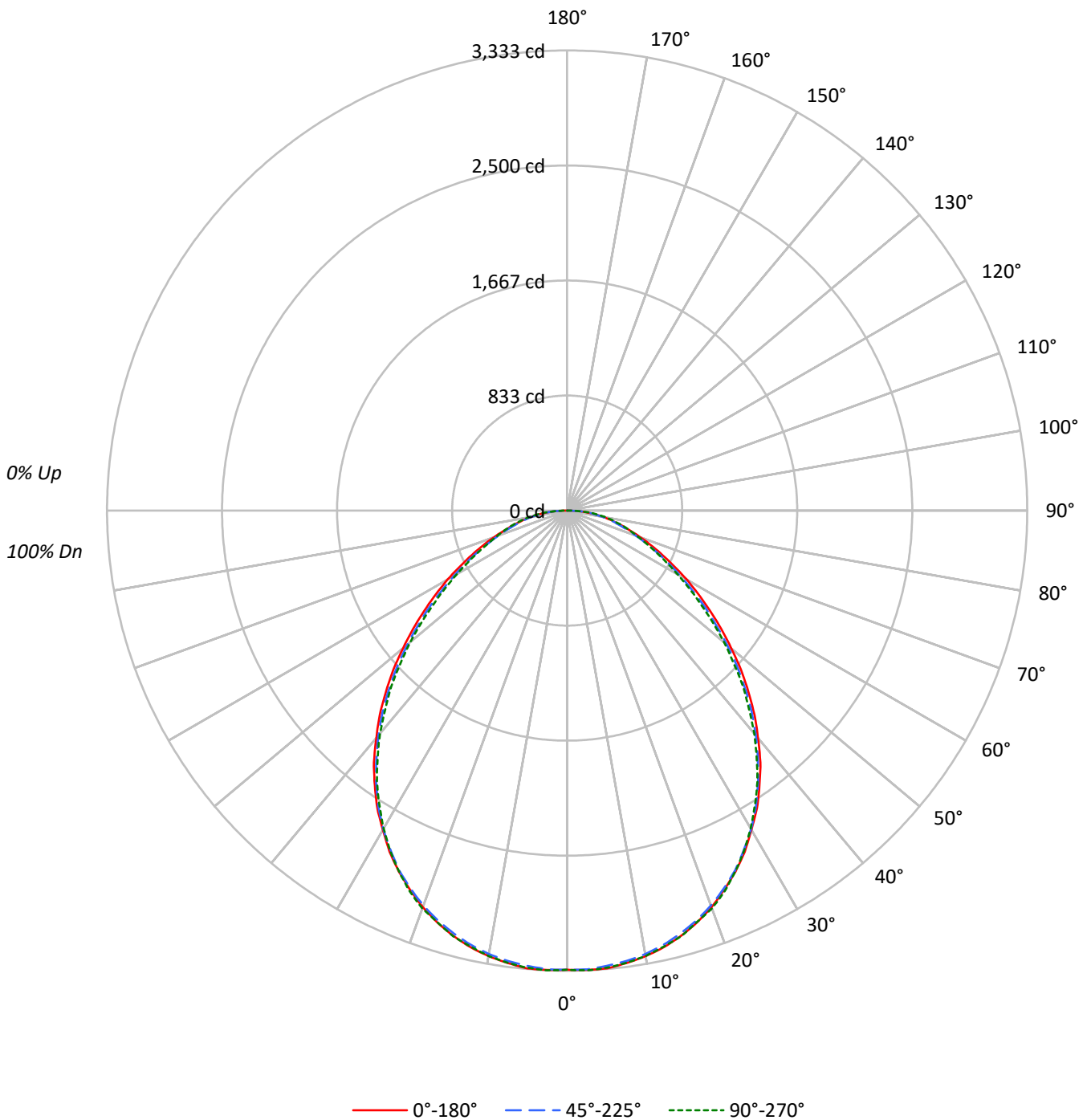
Input Watts (W): 61.938
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4475	4475	4475
5°	4496	4471	4489
10°	4477	4456	4476
15°	4442	4418	4446
20°	4377	4360	4391
25°	4282	4271	4280
30°	4147	4139	4130
35°	3990	3960	3944
40°	3777	3734	3704
45°	3533	3468	3426
50°	3247	3160	3106
55°	2961	2852	2769
60°	2689	2545	2479
65°	2422	2286	2247
70°	2218	2074	2132
75°	2073	1978	2124
80°	2056	2019	2218
85°	2096	2115	2418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	4.0
10°-20°	894.9	11.4
20°-30°	1322.1	16.9
30°-40°	1503.1	19.2
40°-50°	1403.7	17.9
50°-60°	1091.6	13.9
60°-70°	724.3	9.3
70°-80°	419.2	5.4
80°-90°	152.4	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°	2531.8	32.4
0°-40°	4034.9	51.6
0°-60°	6530.1	83.4
0°-90°	7826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3326	3326	3326	3326	3326	
5°	3328	3311	3310	3316	3324	316
15°	3189	3173	3172	3171	3192	898
25°	2884	2872	2877	2871	2883	1326
35°	2429	2417	2411	2394	2401	1517
45°	1857	1842	1823	1799	1801	1431
55°	1262	1244	1216	1184	1180	1132
65°	761	738	718	705	706	760
75°	399	389	380	398	409	427
85°	136	133	137	155	157	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3326.0	3326.0	3326.0	3326.0	3326.0
2.5°	3330.9	3321.2	3326.0	3322.4	3333.4
5°	3328.5	3311.4	3310.1	3316.3	3323.6
7.5°	3305.3	3286.9	3290.6	3290.6	3302.8
10°	3277.1	3258.8	3261.2	3262.4	3275.9
12.5°	3239.2	3220.8	3222.1	3220.8	3234.3
15°	3189.0	3173.1	3171.9	3170.7	3191.5
17.5°	3127.9	3105.9	3113.2	3114.4	3125.4
20°	3056.9	3039.8	3044.7	3043.5	3066.7
22.5°	2972.5	2960.3	2964.0	2961.5	2983.5
25°	2884.5	2872.2	2877.1	2871.0	2883.2
27.5°	2785.4	2776.8	2771.9	2768.2	2776.8
30°	2669.2	2664.3	2664.3	2648.4	2658.1
32.5°	2559.1	2543.2	2543.2	2537.0	2530.9
35°	2429.4	2417.2	2411.0	2393.9	2401.3
37.5°	2299.7	2271.6	2269.2	2255.7	2255.7
40°	2150.5	2134.6	2126.0	2111.4	2108.9
42.5°	2008.6	1992.7	1978.0	1953.5	1948.7
45°	1856.9	1842.2	1822.7	1799.4	1800.6
47.5°	1706.5	1685.7	1667.3	1639.2	1635.5
50°	1551.1	1536.4	1509.5	1485.0	1483.8
52.5°	1405.5	1382.3	1357.8	1328.5	1328.5
55°	1262.4	1244.1	1215.9	1184.1	1180.4
57.5°	1125.4	1108.3	1076.5	1053.2	1047.1
60°	999.4	974.9	945.6	926.0	921.1
62.5°	873.4	851.4	829.4	809.8	808.6
65°	760.9	737.6	718.1	704.6	705.8
67.5°	659.3	639.8	617.7	614.1	615.3
70°	563.9	543.1	527.2	535.8	541.9
72.5°	473.4	462.4	451.4	463.6	472.2
75°	398.8	389.0	380.4	397.6	408.6
77.5°	330.3	322.9	321.7	336.4	346.2
80°	265.4	256.9	260.6	277.7	286.2
82.5°	201.8	195.7	196.9	217.7	223.9
85°	135.8	133.3	137.0	155.4	156.6
87.5°	72.2	72.2	74.6	85.6	82.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)