

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: P257231

Luminaire Tested: **24GR-LD5-90-F125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-F125-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7728.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

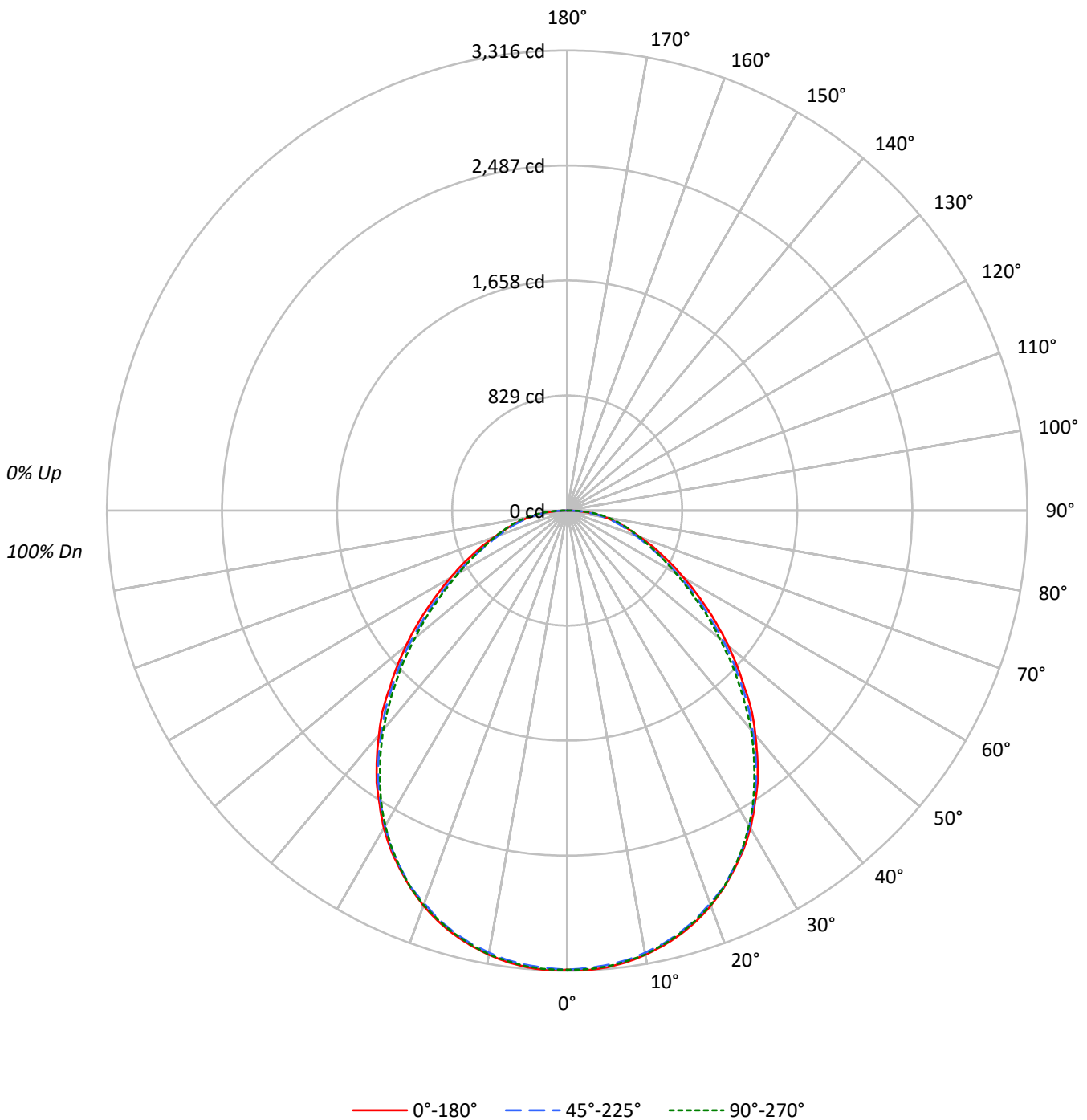
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		94	92	90		91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	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°	5068	5068	5068
5°	5080	5056	5071
10°	5055	5033	5052
15°	5013	4990	5001
20°	4939	4909	4929
25°	4819	4803	4807
30°	4672	4645	4636
35°	4474	4438	4398
40°	4217	4162	4121
45°	3918	3848	3776
50°	3611	3518	3413
55°	3284	3169	3070
60°	2975	2818	2767
65°	2720	2539	2556
70°	2502	2359	2470
75°	2433	2306	2517
80°	2438	2375	2680
85°	2680	2534	2952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	4.0
10°-20°	887.2	11.5
20°-30°	1307.4	16.9
30°-40°	1478.5	19.1
40°-50°	1371.4	17.7
50°-60°	1065.5	13.8
60°-70°	714.5	9.2
70°-80°	428.2	5.5
80°-90°	162.9	2.1
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°	2507.2	32.4
0°-40°	3985.8	51.6
0°-60°	6422.7	83.1
0°-90°	7728.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7728.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3309	3309	3309	3309	3309	
5°	3304	3295	3289	3286	3298	314
15°	3161	3148	3147	3141	3154	891
25°	2851	2848	2842	2837	2844	1312
35°	2393	2383	2374	2359	2352	1491
45°	1809	1802	1777	1749	1743	1399
55°	1230	1215	1187	1157	1150	1104
65°	751	727	701	698	705	749
75°	411	397	390	409	425	434
85°	152	143	144	169	168	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3308.9	3308.9	3308.9	3308.9	3308.9
2.5°	3316.0	3305.3	3300.6	3298.2	3308.9
5°	3304.1	3294.6	3288.6	3286.3	3298.2
7.5°	3282.6	3271.9	3268.3	3263.6	3275.5
10°	3250.5	3241.0	3236.2	3232.6	3248.1
12.5°	3209.9	3201.6	3196.8	3194.5	3204.0
15°	3161.2	3148.0	3146.8	3140.8	3154.0
17.5°	3100.4	3088.5	3086.1	3083.6	3092.0
20°	3030.1	3018.1	3012.1	3011.0	3024.1
22.5°	2945.4	2937.1	2939.5	2932.3	2941.8
25°	2851.3	2847.8	2841.8	2837.0	2844.2
27.5°	2753.6	2741.7	2741.7	2732.2	2739.3
30°	2641.6	2633.3	2626.2	2616.6	2621.4
32.5°	2515.3	2511.8	2501.0	2491.5	2493.9
35°	2392.6	2383.1	2373.5	2359.3	2352.0
37.5°	2252.0	2242.5	2230.6	2210.3	2207.9
40°	2109.0	2100.7	2081.6	2060.1	2061.3
42.5°	1973.2	1960.1	1936.2	1907.7	1901.7
45°	1808.7	1801.6	1776.6	1749.1	1743.2
47.5°	1662.2	1657.4	1626.5	1597.8	1590.7
50°	1515.6	1502.5	1476.3	1447.7	1432.2
52.5°	1371.5	1354.7	1321.4	1302.4	1295.2
55°	1229.7	1215.3	1186.8	1156.9	1149.8
57.5°	1097.4	1081.9	1047.4	1025.9	1022.3
60°	971.1	956.8	919.9	904.4	903.2
62.5°	859.1	835.3	810.2	799.5	800.7
65°	750.6	726.8	700.7	698.3	705.4
67.5°	655.4	630.3	604.1	613.6	620.8
70°	558.8	540.9	526.7	542.1	551.6
72.5°	476.6	465.9	452.8	474.2	486.1
75°	411.1	396.8	389.6	408.7	425.3
77.5°	340.8	328.9	328.9	349.1	367.0
80°	276.4	268.1	269.3	293.1	303.9
82.5°	216.8	204.9	206.1	236.0	243.1
85°	152.5	143.0	144.2	169.2	168.0
87.5°	79.8	76.2	79.8	97.7	92.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)