

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: P475608

Luminaire Tested: **24GR-LD5-130-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475608
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-F125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12990.6 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

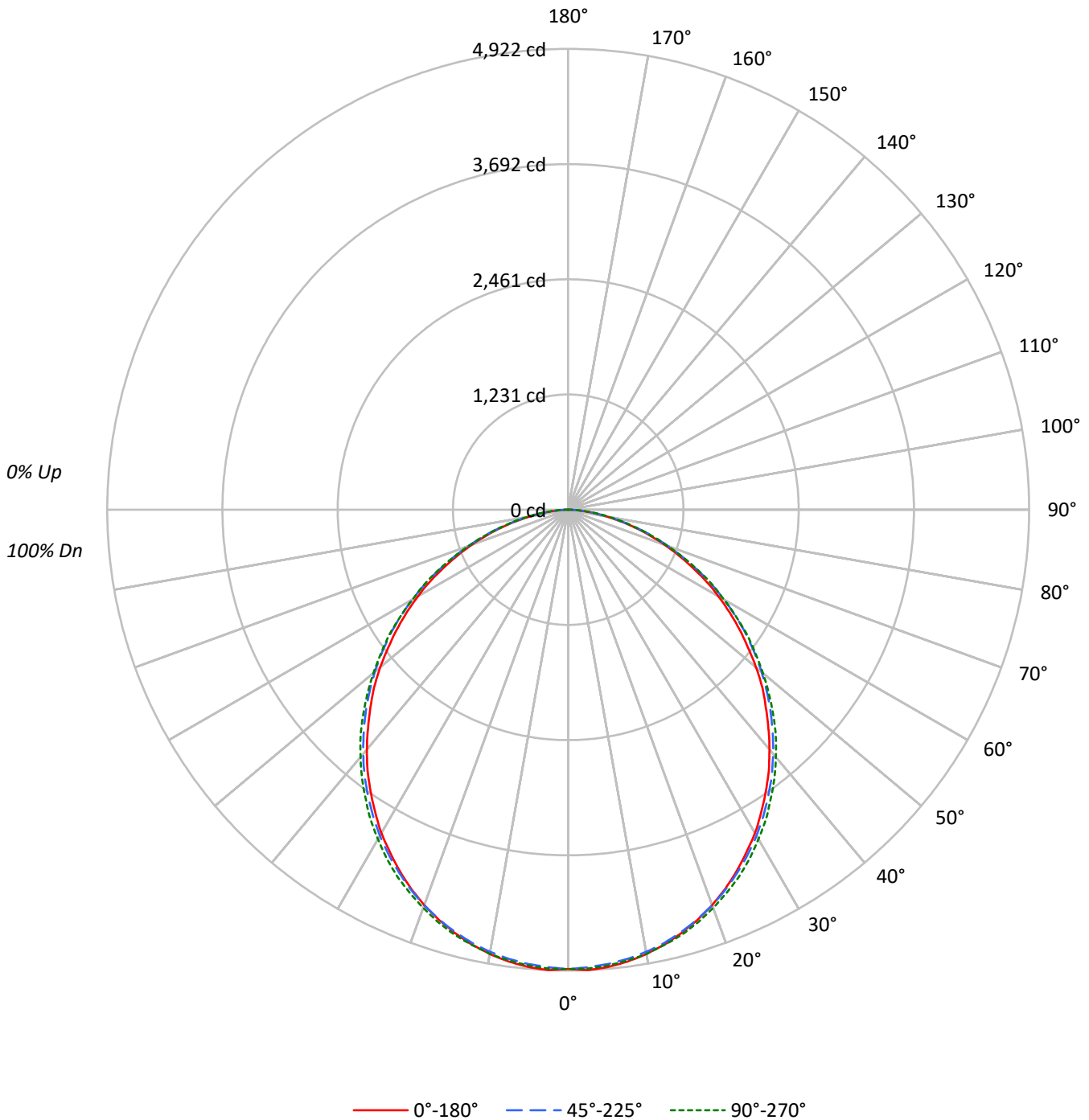
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6601	6601	6601
5°	6621	6579	6598
10°	6583	6552	6579
15°	6518	6503	6544
20°	6434	6436	6479
25°	6322	6347	6414
30°	6199	6246	6311
35°	6039	6122	6193
40°	5873	5980	6058
45°	5679	5818	5892
50°	5481	5642	5680
55°	5244	5433	5472
60°	4994	5164	5170
65°	4666	4846	4872
70°	4322	4444	4430
75°	3840	3977	3989
80°	3212	3326	3452
85°	2410	2592	2683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	3.6
10°-20°	1318.8	10.2
20°-30°	1971.4	15.2
30°-40°	2329.1	17.9
40°-50°	2351.2	18.1
50°-60°	2051.9	15.8
60°-70°	1495.9	11.5
70°-80°	806.7	6.2
80°-90°	201.9	1.6
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°	3753.7	28.9
0°-40°	6082.8	46.8
0°-60°	10486.0	80.7
0°-90°	12990.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12990.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4906	4906	4906	4906	4906	
5°	4902	4885	4871	4876	4885	465
15°	4679	4670	4669	4680	4698	1319
25°	4259	4259	4276	4303	4320	1961
35°	3677	3687	3727	3763	3770	2300
45°	2985	3006	3058	3096	3097	2304
55°	2236	2263	2316	2325	2333	1998
65°	1466	1497	1522	1525	1530	1456
75°	739	746	765	768	767	785
85°	156	160	168	176	174	190
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4906.0	4906.0	4906.0	4906.0	4906.0
2.5°	4922.2	4904.5	4890.5	4893.4	4905.2
5°	4902.3	4884.6	4871.3	4875.8	4885.3
7.5°	4866.9	4850.7	4840.4	4844.8	4857.4
10°	4818.3	4805.1	4795.5	4802.1	4815.4
12.5°	4756.5	4743.2	4739.5	4749.1	4760.9
15°	4679.1	4669.6	4668.8	4679.9	4697.6
17.5°	4592.2	4582.7	4587.8	4602.6	4618.0
20°	4493.6	4484.7	4495.0	4514.9	4525.2
22.5°	4380.9	4373.5	4391.9	4412.6	4425.8
25°	4258.7	4259.4	4275.6	4302.8	4320.5
27.5°	4123.2	4128.3	4152.6	4179.1	4196.8
30°	3989.9	3985.4	4020.1	4048.8	4062.0
32.5°	3835.2	3837.4	3877.9	3907.4	3927.3
35°	3676.9	3687.2	3727.0	3763.1	3770.4
37.5°	3517.1	3524.5	3572.3	3607.7	3617.2
40°	3344.0	3357.3	3404.4	3437.6	3449.3
42.5°	3163.6	3180.6	3231.4	3266.0	3281.4
45°	2984.7	3006.0	3057.6	3095.9	3096.6
47.5°	2811.6	2827.1	2877.2	2911.0	2907.3
50°	2618.7	2641.5	2695.3	2715.9	2713.7
52.5°	2421.3	2455.9	2505.3	2521.5	2519.3
55°	2235.7	2263.0	2316.0	2324.8	2332.9
57.5°	2043.5	2067.1	2124.5	2128.2	2126.8
60°	1855.8	1877.1	1919.1	1929.4	1921.3
62.5°	1666.5	1687.9	1725.4	1735.7	1734.2
65°	1465.5	1497.1	1522.2	1525.1	1530.3
67.5°	1278.4	1298.3	1322.6	1327.0	1323.3
70°	1098.7	1115.7	1129.7	1132.6	1126.0
72.5°	913.1	928.6	948.5	952.2	944.8
75°	738.6	746.0	765.1	768.1	767.3
77.5°	569.2	575.1	589.1	600.2	601.6
80°	414.6	416.8	429.3	437.4	445.5
82.5°	274.7	280.6	290.1	298.2	305.6
85°	156.1	159.8	167.9	176.0	173.8
87.5°	60.4	68.5	69.2	77.3	80.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)