

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: P475593

Luminaire Tested: **24GR-LD5-130-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475593
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-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12535.9 lumens
Efficiency: N/A
Efficacy: 141.3 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

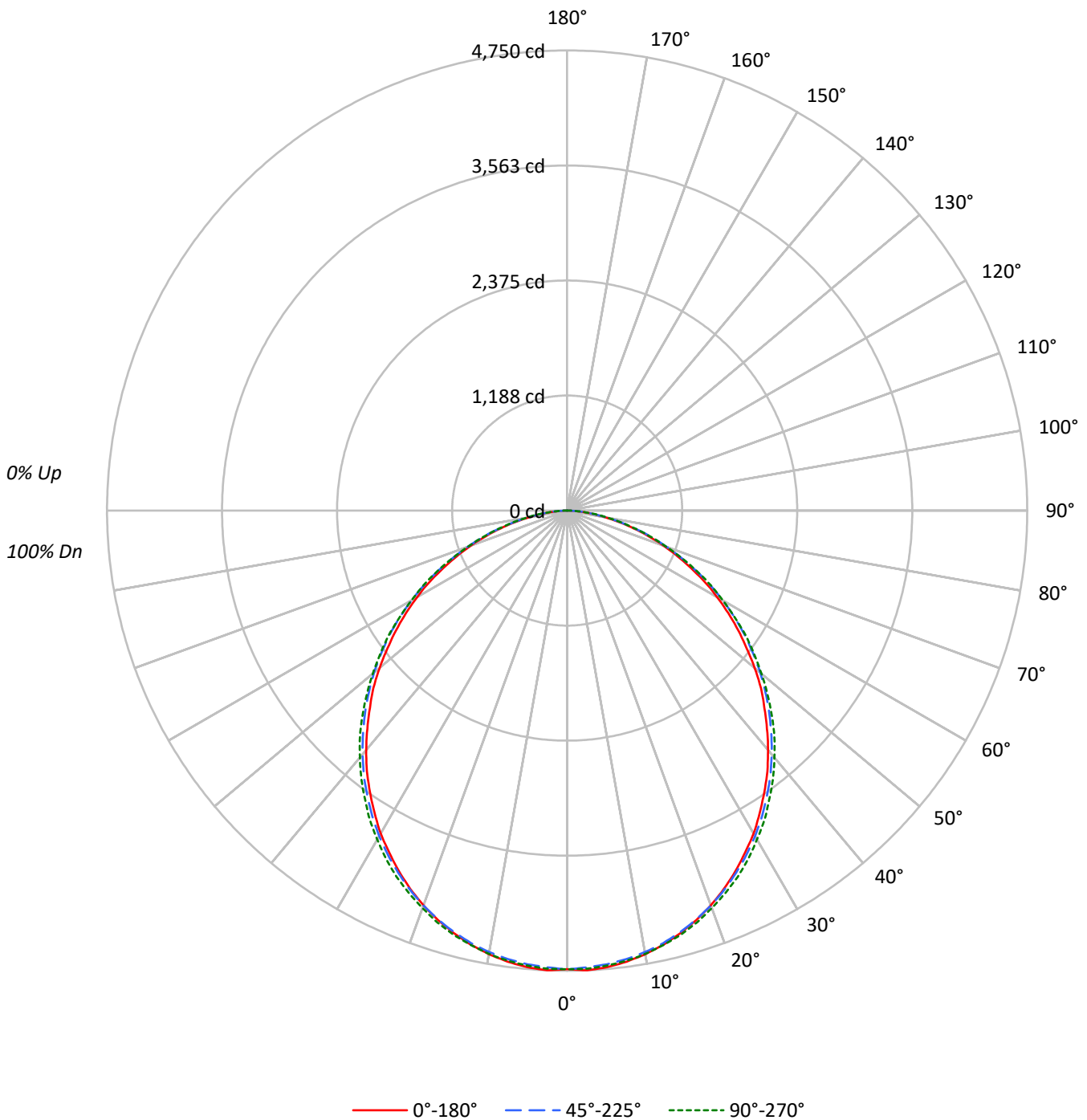
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6370	6370	6370
5°	6389	6349	6367
10°	6353	6323	6349
15°	6290	6276	6314
20°	6209	6211	6253
25°	6101	6125	6190
30°	5982	6027	6090
35°	5828	5907	5976
40°	5668	5770	5846
45°	5480	5614	5686
50°	5290	5444	5481
55°	5061	5243	5281
60°	4819	4983	4989
65°	4502	4677	4701
70°	4171	4288	4275
75°	3706	3838	3850
80°	3100	3210	3331
85°	2326	2501	2589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.3	3.6
10°-20°	1272.7	10.2
20°-30°	1902.4	15.2
30°-40°	2247.6	17.9
40°-50°	2268.9	18.1
50°-60°	1980.1	15.8
60°-70°	1443.5	11.5
70°-80°	778.5	6.2
80°-90°	194.9	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°	3622.4	28.9
0°-40°	5869.9	46.8
0°-60°	10119.0	80.7
0°-90°	12535.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12535.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4734	4734	4734	4734	4734	
5°	4731	4714	4701	4705	4714	449
15°	4515	4506	4505	4516	4533	1273
25°	4110	4110	4126	4152	4169	1892
35°	3548	3558	3596	3631	3638	2220
45°	2880	2901	2951	2988	2988	2224
55°	2158	2184	2235	2244	2251	1928
65°	1414	1445	1469	1472	1477	1405
75°	713	720	738	741	740	757
85°	151	154	162	170	168	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4734.3	4734.3	4734.3	4734.3	4734.3
2.5°	4749.9	4732.8	4719.3	4722.2	4733.5
5°	4730.7	4713.6	4700.9	4705.1	4714.4
7.5°	4696.6	4681.0	4671.0	4675.3	4687.3
10°	4649.7	4636.9	4627.7	4634.1	4646.8
12.5°	4590.0	4577.2	4573.6	4582.9	4594.3
15°	4515.4	4506.1	4505.4	4516.1	4533.1
17.5°	4431.5	4422.3	4427.3	4441.5	4456.4
20°	4336.3	4327.8	4337.7	4356.9	4366.9
22.5°	4227.6	4220.5	4238.2	4258.1	4270.9
25°	4109.6	4110.3	4125.9	4152.2	4169.3
27.5°	3978.8	3983.8	4007.3	4032.9	4049.9
30°	3850.2	3846.0	3879.4	3907.1	3919.9
32.5°	3701.0	3703.1	3742.2	3770.6	3789.8
35°	3548.2	3558.2	3596.5	3631.3	3638.5
37.5°	3394.0	3401.1	3447.3	3481.4	3490.6
40°	3227.0	3239.8	3285.3	3317.2	3328.6
42.5°	3052.9	3069.2	3118.3	3151.7	3166.6
45°	2880.2	2900.8	2950.6	2987.5	2988.2
47.5°	2713.2	2728.1	2776.5	2809.1	2805.6
50°	2527.0	2549.0	2600.9	2620.8	2618.7
52.5°	2336.6	2370.0	2417.6	2433.2	2431.1
55°	2157.5	2183.8	2234.9	2243.5	2251.3
57.5°	1972.0	1994.8	2050.2	2053.7	2052.3
60°	1790.8	1811.4	1851.9	1861.9	1854.0
62.5°	1608.2	1628.8	1665.0	1675.0	1673.5
65°	1414.2	1444.7	1468.9	1471.7	1476.7
67.5°	1233.7	1252.8	1276.3	1280.6	1277.0
70°	1060.3	1076.6	1090.1	1093.0	1086.6
72.5°	881.2	896.1	915.3	918.9	911.7
75°	712.8	719.9	738.3	741.2	740.5
77.5°	549.3	555.0	568.5	579.2	580.6
80°	400.1	402.2	414.3	422.1	429.9
82.5°	265.1	270.8	280.0	287.8	294.9
85°	150.7	154.2	162.0	169.8	167.7
87.5°	58.3	66.1	66.8	74.6	77.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)