

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: P475548

Luminaire Tested: **24GR-LD5-130-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475548  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-130-F1-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F1 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 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

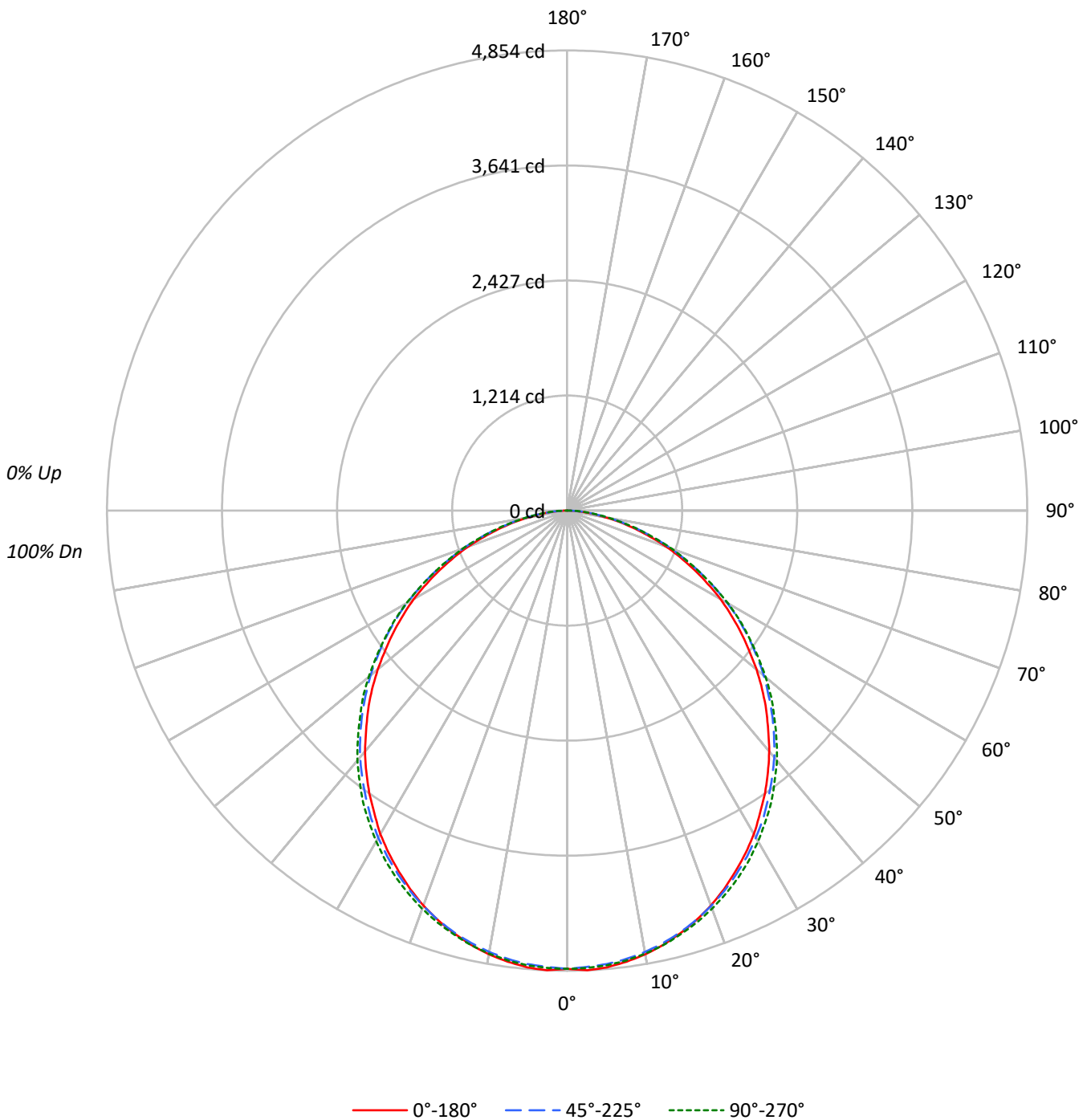
Input Watts (W): 88.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6504	6504	6504
5°	6532	6485	6503
10°	6494	6459	6482
15°	6429	6417	6445
20°	6348	6355	6399
25°	6236	6277	6342
30°	6122	6189	6259
35°	5977	6077	6169
40°	5825	5970	6046
45°	5651	5823	5883
50°	5459	5669	5720
55°	5245	5478	5508
60°	5029	5252	5273
65°	4713	4936	4924
70°	4366	4566	4611
75°	3868	4093	4119
80°	3218	3455	3534
85°	2439	2675	3009



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.8	3.5
10°-20°	1300.6	10.0
20°-30°	1948.8	15.0
30°-40°	2312.0	17.8
40°-50°	2348.1	18.1
50°-60°	2067.9	15.9
60°-70°	1519.5	11.7
70°-80°	826.4	6.4
80°-90°	210.5	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°	3706.2	28.5
0°-40°	6018.2	46.3
0°-60°	10434.2	80.3
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°	4834	4834	4834	4834	4834	
5°	4836	4816	4802	4802	4814	459
15°	4616	4607	4607	4613	4627	1302
25°	4200	4206	4228	4253	4272	1936
35°	3639	3659	3700	3737	3756	2275
45°	2970	2994	3060	3096	3092	2289
55°	2236	2268	2335	2357	2348	1999
65°	1480	1505	1550	1562	1547	1467
75°	744	759	787	790	792	791
85°	158	162	173	189	195	191
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4833.6	4833.6	4833.6	4833.6	4833.6
2.5°	4853.9	4834.8	4818.3	4818.3	4829.7
5°	4836.1	4815.7	4801.7	4801.7	4814.5
7.5°	4799.2	4782.6	4771.1	4771.1	4785.2
10°	4753.3	4736.7	4727.8	4729.1	4744.4
12.5°	4692.1	4676.9	4673.0	4675.6	4694.7
15°	4615.7	4606.8	4606.8	4613.2	4627.2
17.5°	4530.4	4521.4	4527.8	4536.7	4554.6
20°	4433.5	4427.2	4438.6	4452.6	4469.2
22.5°	4322.7	4320.1	4339.3	4358.4	4374.9
25°	4200.4	4205.5	4228.4	4252.6	4271.7
27.5°	4074.3	4079.4	4111.2	4136.7	4155.8
30°	3940.5	3943.0	3983.8	4014.4	4028.4
32.5°	3785.1	3805.4	3848.8	3878.1	3890.8
35°	3638.6	3658.9	3699.7	3736.6	3755.8
37.5°	3479.3	3497.1	3550.6	3590.1	3596.5
40°	3316.2	3332.8	3399.0	3432.2	3442.4
42.5°	3137.9	3169.7	3229.6	3262.7	3269.1
45°	2969.7	2993.9	3060.2	3095.8	3092.0
47.5°	2790.1	2816.8	2881.8	2916.2	2922.6
50°	2607.9	2638.5	2708.5	2731.5	2732.7
52.5°	2416.8	2456.3	2520.0	2550.6	2540.4
55°	2235.9	2267.7	2335.2	2356.9	2348.0
57.5°	2049.9	2085.5	2148.0	2159.4	2160.7
60°	1869.0	1898.3	1951.8	1963.2	1959.4
62.5°	1670.2	1699.5	1747.9	1759.4	1750.5
65°	1480.4	1504.6	1550.5	1561.9	1546.6
67.5°	1291.8	1316.0	1351.7	1369.6	1353.0
70°	1109.7	1128.8	1160.6	1170.8	1172.1
72.5°	916.0	950.4	973.3	972.1	968.2
75°	744.0	759.3	787.3	789.9	792.4
77.5°	579.7	583.5	612.8	620.4	615.3
80°	415.3	429.3	445.9	454.8	456.1
82.5°	273.9	284.1	298.1	313.4	313.4
85°	158.0	161.8	173.3	188.6	194.9
87.5°	63.7	70.1	81.5	93.0	94.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)