

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: P475578

Luminaire Tested: **24GR-LD5-130-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475578  
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-L850-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F1 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13250.4 lumens  
Efficiency: N/A  
Efficacy: 149.4 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

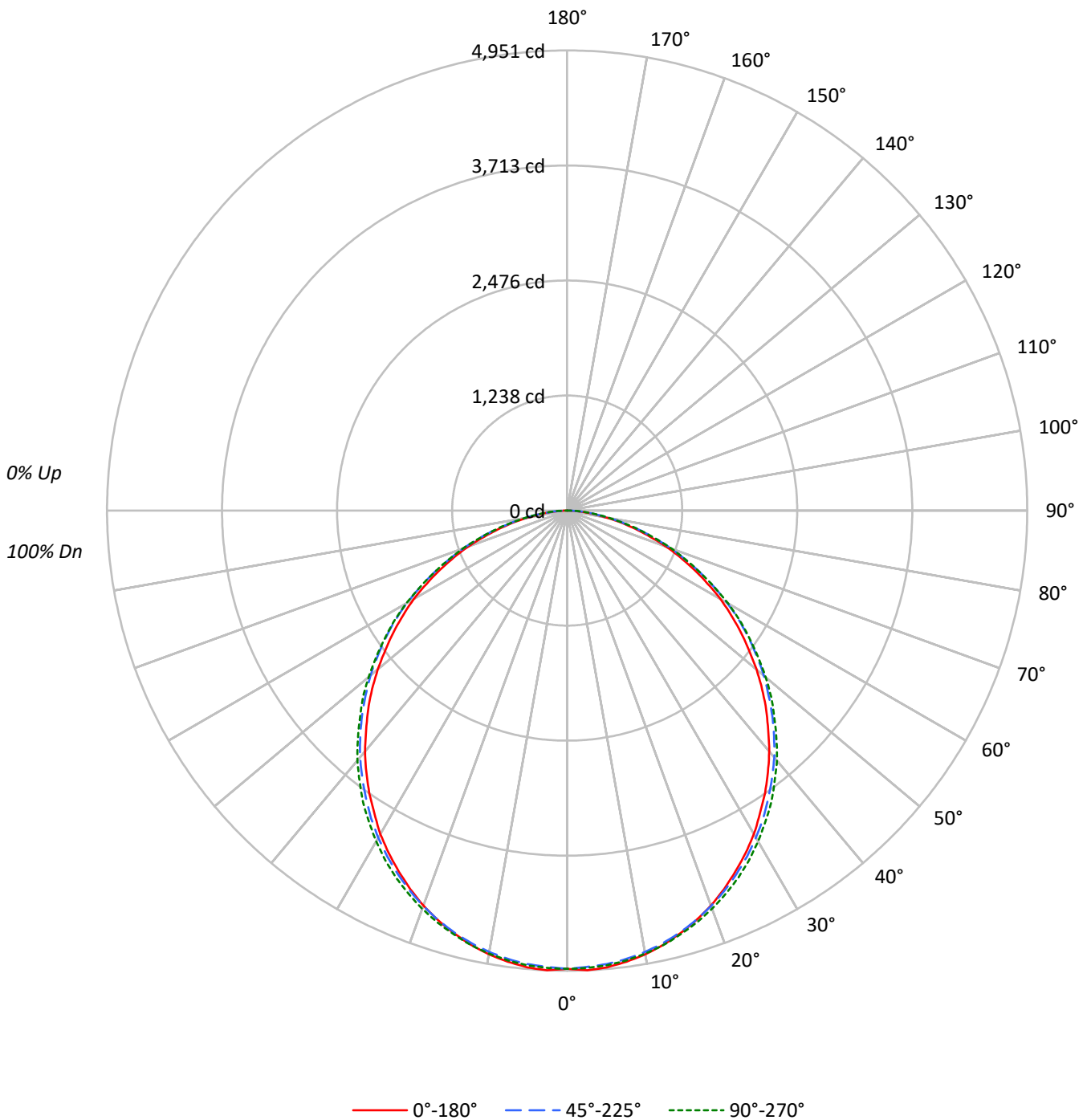
Input Watts (W): 88.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6634	6634	6634
5°	6662	6615	6633
10°	6624	6589	6612
15°	6558	6545	6574
20°	6475	6483	6527
25°	6361	6403	6469
30°	6245	6313	6384
35°	6096	6198	6292
40°	5941	6089	6167
45°	5764	5939	6001
50°	5568	5783	5835
55°	5350	5588	5618
60°	5130	5357	5378
65°	4807	5035	5023
70°	4452	4657	4703
75°	3945	4175	4202
80°	3282	3524	3605
85°	2487	2728	3069



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.9	3.5
10°-20°	1326.6	10.0
20°-30°	1987.7	15.0
30°-40°	2358.3	17.8
40°-50°	2395.0	18.1
50°-60°	2109.2	15.9
60°-70°	1549.9	11.7
70°-80°	842.9	6.4
80°-90°	214.7	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°	3780.3	28.5
0°-40°	6138.6	46.3
0°-60°	10642.8	80.3
0°-90°	13250.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13250.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4930	4930	4930	4930	4930	
5°	4933	4912	4898	4898	4911	468
15°	4708	4699	4699	4705	4720	1328
25°	4284	4290	4313	4338	4357	1974
35°	3711	3732	3774	3811	3831	2320
45°	3029	3054	3121	3158	3154	2335
55°	2281	2313	2382	2404	2395	2039
65°	1510	1535	1582	1593	1578	1497
75°	759	774	803	806	808	807
85°	161	165	177	192	199	195
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4930.2	4930.2	4930.2	4930.2	4930.2
2.5°	4951.0	4931.5	4914.6	4914.6	4926.3
5°	4932.8	4912.0	4897.7	4897.7	4910.7
7.5°	4895.1	4878.3	4866.6	4866.6	4880.9
10°	4848.4	4831.5	4822.4	4823.7	4839.3
12.5°	4786.0	4770.4	4766.5	4769.1	4788.6
15°	4708.0	4698.9	4698.9	4705.4	4719.7
17.5°	4621.0	4611.9	4618.4	4627.5	4645.6
20°	4522.2	4515.7	4527.4	4541.7	4558.6
22.5°	4409.1	4406.5	4426.0	4445.5	4462.4
25°	4284.4	4289.6	4313.0	4337.7	4357.2
27.5°	4155.7	4160.9	4193.4	4219.4	4238.9
30°	4019.3	4021.9	4063.5	4094.7	4109.0
32.5°	3860.8	3881.6	3925.7	3955.6	3968.6
35°	3711.3	3732.1	3773.7	3811.4	3830.9
37.5°	3548.9	3567.1	3621.7	3661.9	3668.4
40°	3382.6	3399.4	3467.0	3500.8	3511.2
42.5°	3200.6	3233.1	3294.2	3328.0	3334.5
45°	3029.1	3053.8	3121.4	3157.7	3153.8
47.5°	2845.9	2873.2	2939.4	2974.5	2981.0
50°	2660.0	2691.2	2762.7	2786.1	2787.4
52.5°	2465.1	2505.4	2570.4	2601.6	2591.2
55°	2280.6	2313.1	2382.0	2404.0	2394.9
57.5°	2090.9	2127.3	2190.9	2202.6	2203.9
60°	1906.3	1936.2	1990.8	2002.5	1998.6
62.5°	1703.6	1733.5	1782.9	1794.6	1785.5
65°	1510.0	1534.7	1581.5	1593.2	1577.6
67.5°	1317.7	1342.4	1378.8	1396.9	1380.1
70°	1131.8	1151.3	1183.8	1194.2	1195.5
72.5°	934.3	969.4	992.8	991.5	987.6
75°	758.9	774.5	803.1	805.7	808.3
77.5°	591.3	595.2	625.1	632.8	627.6
80°	423.6	437.9	454.8	463.9	465.2
82.5°	279.4	289.8	304.1	319.7	319.7
85°	161.1	165.0	176.7	192.3	198.8
87.5°	65.0	71.5	83.2	94.9	96.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)