

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: P475563

Luminaire Tested: **24GR-LD5-130-F1-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475563  
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-L840-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F1 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13237.4 lumens  
Efficiency: N/A  
Efficacy: 149.2 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

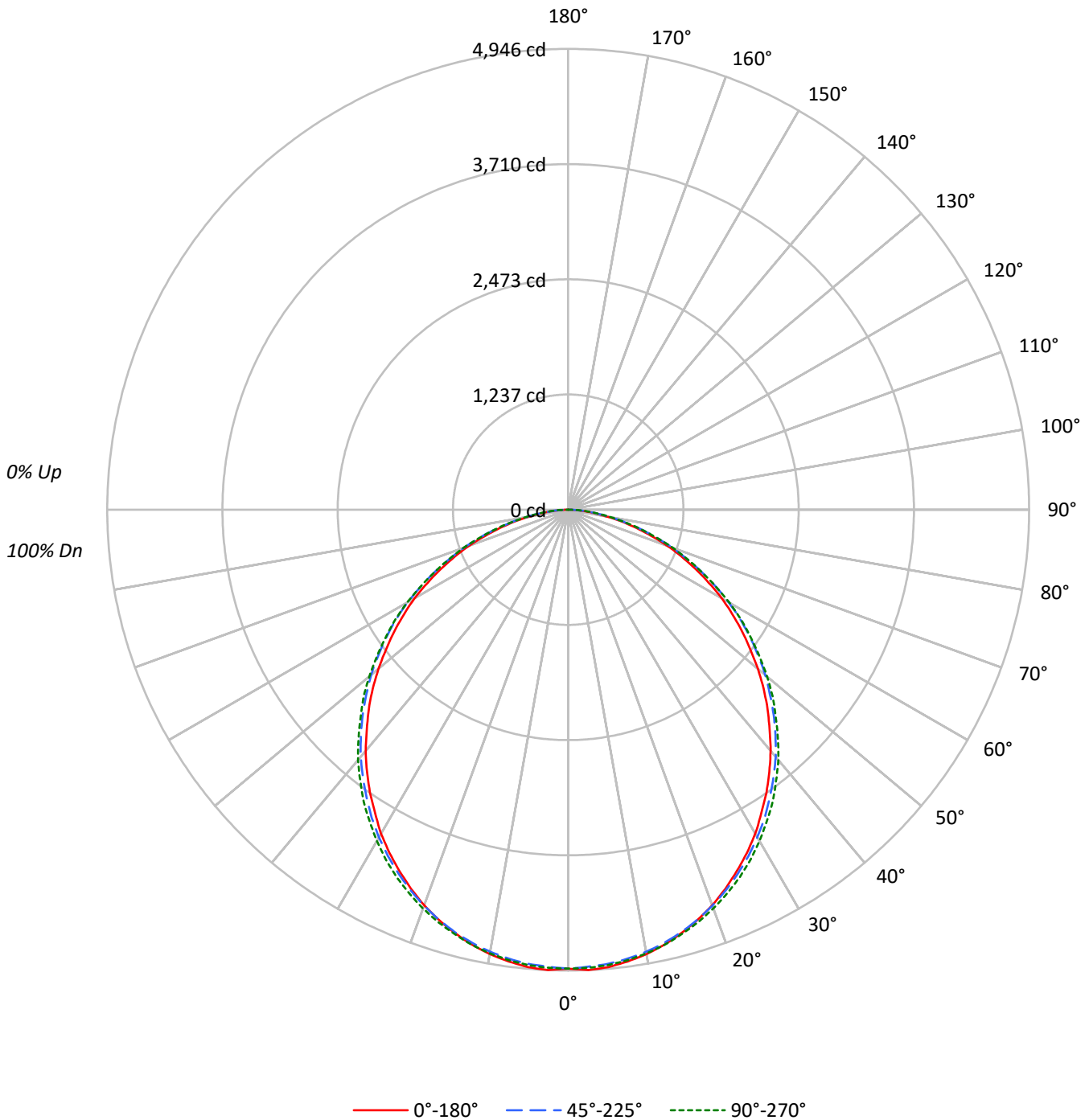
Input Watts (W): 88.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6627	6627	6627
5°	6656	6608	6626
10°	6618	6582	6605
15°	6552	6539	6568
20°	6469	6476	6521
25°	6354	6397	6462
30°	6238	6307	6378
35°	6090	6192	6286
40°	5935	6084	6161
45°	5758	5934	5995
50°	5562	5777	5829
55°	5345	5582	5613
60°	5125	5352	5373
65°	4803	5030	5018
70°	4448	4653	4699
75°	3942	4171	4198
80°	3279	3521	3601
85°	2485	2726	3066



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.5	3.5
10°-20°	1325.3	10.0
20°-30°	1985.8	15.0
30°-40°	2356.0	17.8
40°-50°	2392.7	18.1
50°-60°	2107.1	15.9
60°-70°	1548.3	11.7
70°-80°	842.1	6.4
80°-90°	214.5	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°	3776.6	28.5
0°-40°	6132.6	46.3
0°-60°	10632.4	80.3
0°-90°	13237.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13237.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4925	4925	4925	4925	4925	
5°	4928	4907	4893	4893	4906	468
15°	4703	4694	4694	4701	4715	1326
25°	4280	4285	4309	4333	4353	1972
35°	3708	3728	3770	3808	3827	2318
45°	3026	3051	3118	3155	3151	2332
55°	2278	2311	2380	2402	2393	2037
65°	1508	1533	1580	1592	1576	1495
75°	758	774	802	805	808	806
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°	4925.4	4925.4	4925.4	4925.4	4925.4
2.5°	4946.2	4926.7	4909.8	4909.8	4921.5
5°	4928.0	4907.2	4892.9	4892.9	4905.9
7.5°	4890.4	4873.5	4861.8	4861.8	4876.1
10°	4843.6	4826.7	4817.7	4818.9	4834.5
12.5°	4781.3	4765.7	4761.8	4764.4	4783.9
15°	4703.4	4694.3	4694.3	4700.8	4715.1
17.5°	4616.4	4607.3	4613.8	4622.9	4641.1
20°	4517.8	4511.3	4523.0	4537.2	4554.1
22.5°	4404.8	4402.2	4421.7	4441.2	4458.0
25°	4280.2	4285.4	4308.8	4333.4	4352.9
27.5°	4151.7	4156.9	4189.3	4215.3	4234.8
30°	4015.4	4018.0	4059.5	4090.7	4104.9
32.5°	3857.0	3877.7	3921.9	3951.7	3964.7
35°	3707.7	3728.5	3770.0	3807.6	3827.1
37.5°	3545.4	3563.6	3618.1	3658.4	3664.8
40°	3379.2	3396.1	3463.6	3497.4	3507.8
42.5°	3197.5	3229.9	3291.0	3324.7	3331.2
45°	3026.1	3050.8	3118.3	3154.6	3150.8
47.5°	2843.1	2870.3	2936.5	2971.6	2978.1
50°	2657.4	2688.6	2760.0	2783.4	2784.7
52.5°	2462.7	2502.9	2567.9	2599.0	2588.6
55°	2278.4	2310.8	2379.6	2401.7	2392.6
57.5°	2088.8	2125.2	2188.8	2200.5	2201.8
60°	1904.5	1934.3	1988.9	2000.5	1996.6
62.5°	1702.0	1731.8	1781.1	1792.8	1783.7
65°	1508.5	1533.2	1579.9	1591.6	1576.0
67.5°	1316.4	1341.0	1377.4	1395.6	1378.7
70°	1130.7	1150.2	1182.7	1193.1	1194.4
72.5°	933.4	968.5	991.8	990.5	986.6
75°	758.2	773.7	802.3	804.9	807.5
77.5°	590.7	594.6	624.4	632.2	627.0
80°	423.2	437.5	454.4	463.5	464.8
82.5°	279.1	289.5	303.8	319.4	319.4
85°	161.0	164.9	176.6	192.1	198.6
87.5°	64.9	71.4	83.1	94.8	96.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)