

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: P475609

Luminaire Tested: **24GR-LD5-150-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475609
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-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: 15081.5 lumens
Efficiency: N/A
Efficacy: 145.9 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

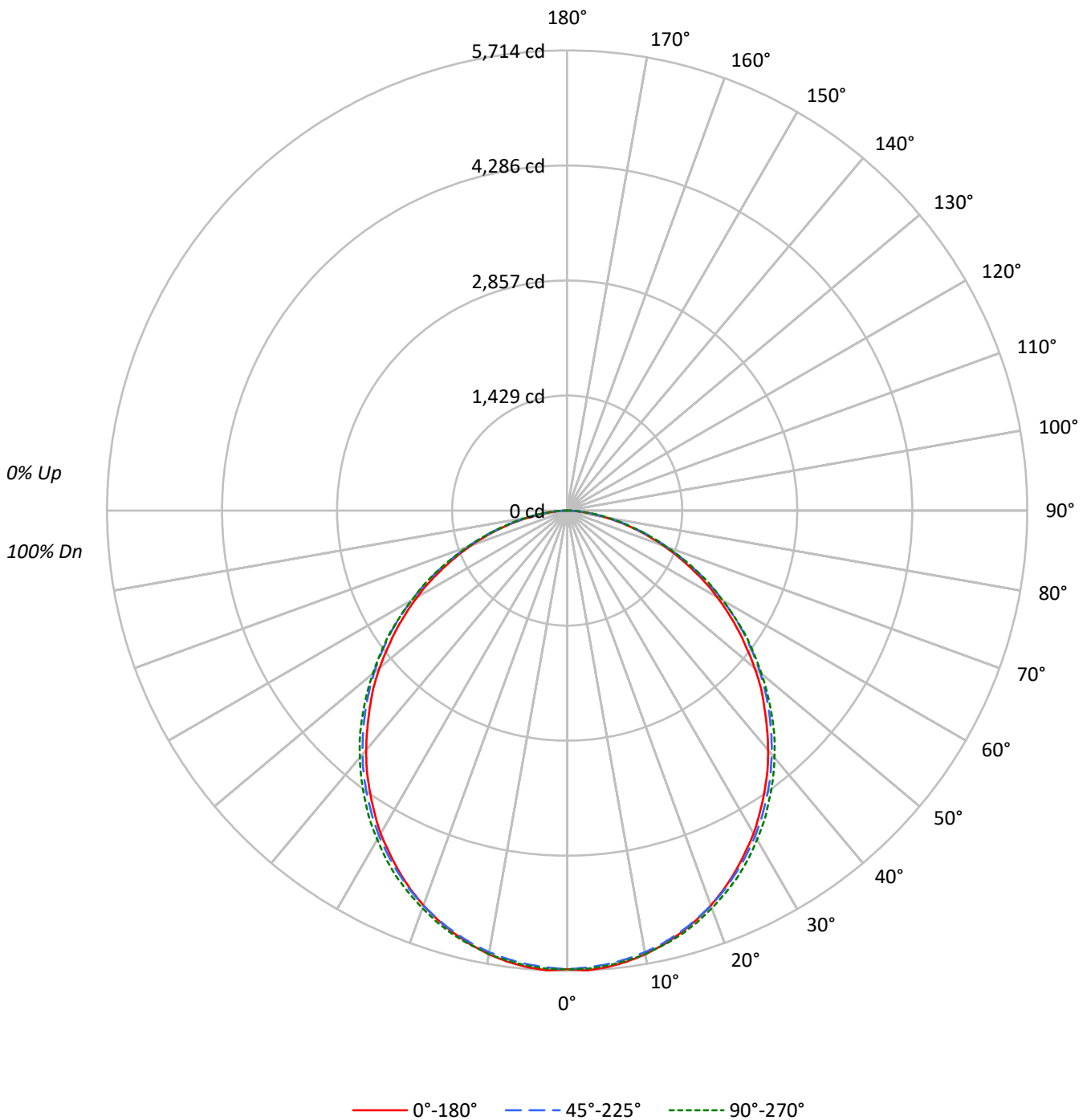
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7663	7663	7663
5°	7687	7638	7660
10°	7643	7606	7638
15°	7567	7550	7597
20°	7470	7472	7522
25°	7340	7369	7447
30°	7197	7251	7327
35°	7012	7107	7190
40°	6819	6942	7034
45°	6593	6754	6841
50°	6364	6550	6595
55°	6089	6307	6354
60°	5797	5996	6002
65°	5416	5626	5656
70°	5018	5159	5142
75°	4458	4618	4631
80°	3729	3862	4007
85°	2797	3009	3115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.1	3.6
10°-20°	1531.1	10.2
20°-30°	2288.7	15.2
30°-40°	2704.0	17.9
40°-50°	2729.7	18.1
50°-60°	2382.2	15.8
60°-70°	1736.7	11.5
70°-80°	936.6	6.2
80°-90°	234.4	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°	4357.9	28.9
0°-40°	7061.9	46.8
0°-60°	12173.8	80.7
0°-90°	15081.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15081.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5696	5696	5696	5696	5696	
5°	5691	5671	5655	5661	5672	540
15°	5432	5421	5420	5433	5454	1532
25°	4944	4945	4964	4995	5016	2276
35°	4269	4281	4327	4369	4377	2670
45°	3465	3490	3550	3594	3595	2675
55°	2596	2627	2689	2699	2708	2320
65°	1701	1738	1767	1771	1777	1691
75°	858	866	888	892	891	911
85°	181	186	195	204	202	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5695.6	5695.6	5695.6	5695.6	5695.6
2.5°	5714.4	5693.9	5677.7	5681.1	5694.8
5°	5691.3	5670.8	5655.4	5660.6	5671.7
7.5°	5650.3	5631.5	5619.5	5624.7	5639.2
10°	5593.9	5578.5	5567.4	5575.1	5590.5
12.5°	5522.1	5506.7	5502.4	5513.5	5527.2
15°	5432.3	5421.2	5420.3	5433.1	5453.7
17.5°	5331.4	5320.3	5326.3	5343.4	5361.3
20°	5216.8	5206.6	5218.6	5241.6	5253.6
22.5°	5086.0	5077.5	5098.9	5122.8	5138.2
25°	4944.1	4945.0	4963.8	4995.4	5015.9
27.5°	4786.8	4792.8	4821.0	4851.8	4872.3
30°	4632.1	4626.9	4667.1	4700.5	4715.9
32.5°	4452.5	4455.1	4502.1	4536.3	4559.4
35°	4268.7	4280.7	4326.9	4368.7	4377.3
37.5°	4083.2	4091.7	4147.3	4188.4	4199.5
40°	3882.3	3897.7	3952.4	3990.9	4004.5
42.5°	3672.8	3692.5	3751.5	3791.7	3809.6
45°	3465.1	3489.9	3549.7	3594.2	3595.0
47.5°	3264.2	3282.1	3340.3	3379.6	3375.3
50°	3040.2	3066.7	3129.1	3153.0	3150.5
52.5°	2811.0	2851.2	2908.5	2927.3	2924.8
55°	2595.6	2627.2	2688.8	2699.0	2708.5
57.5°	2372.5	2399.8	2466.5	2470.8	2469.1
60°	2154.4	2179.2	2228.0	2239.9	2230.5
62.5°	1934.7	1959.5	2003.1	2015.1	2013.4
65°	1701.3	1738.1	1767.2	1770.6	1776.6
67.5°	1484.2	1507.3	1535.5	1540.6	1536.3
70°	1275.6	1295.2	1311.5	1314.9	1307.2
72.5°	1060.1	1078.1	1101.2	1105.4	1096.9
75°	857.5	866.1	888.3	891.7	890.8
77.5°	660.9	667.7	684.0	696.8	698.5
80°	481.3	483.9	498.4	507.8	517.2
82.5°	318.9	325.7	336.8	346.3	354.8
85°	181.2	185.5	194.9	204.3	201.8
87.5°	70.1	79.5	80.4	89.8	93.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)