

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: P231789

Luminaire Tested: **24GR-LD5-150-F1-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-F1-UNV-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13039.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

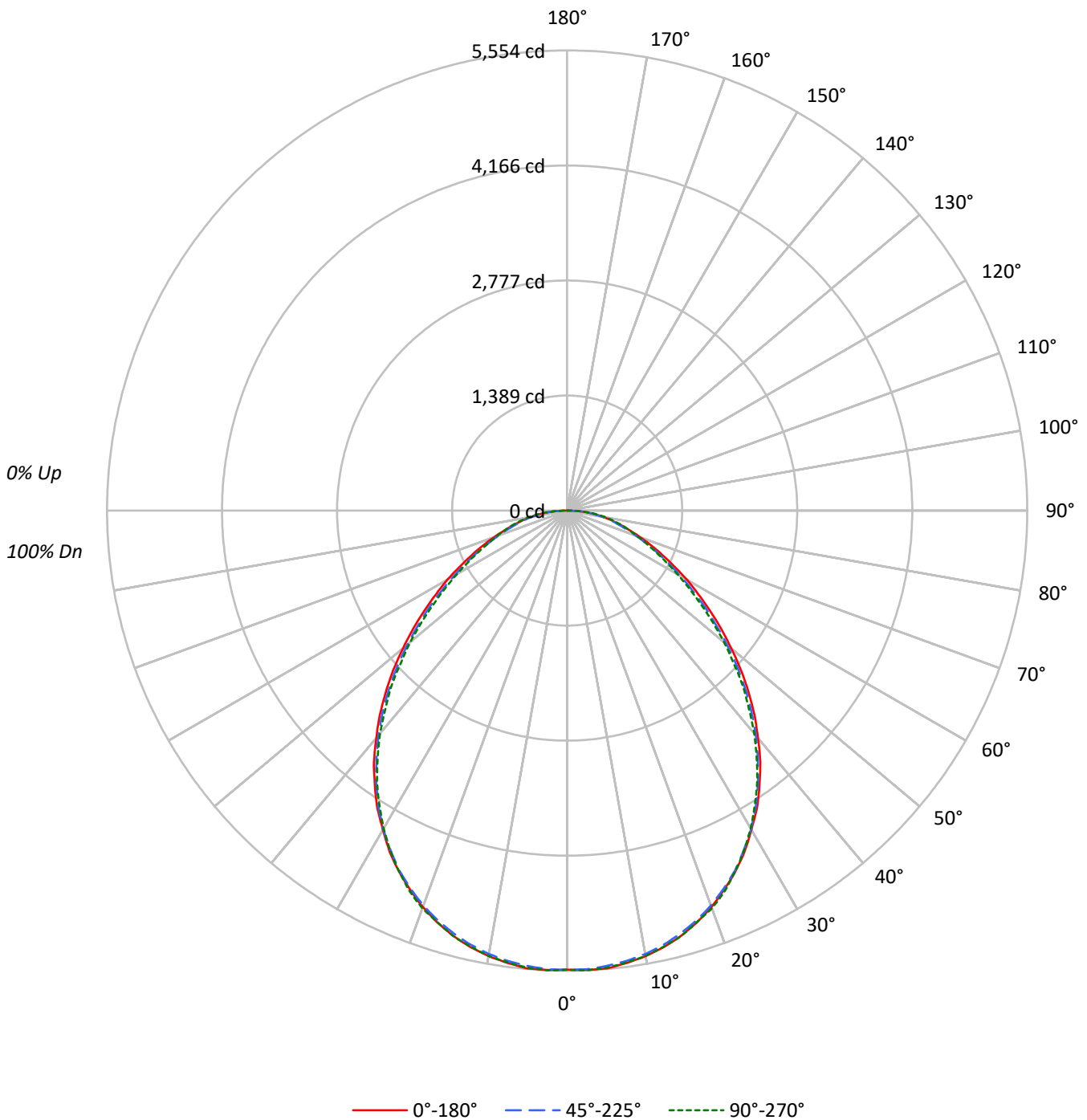
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8488	8488	8488
5°	8526	8479	8514
10°	8492	8450	8489
15°	8425	8380	8431
20°	8302	8268	8328
25°	8122	8101	8118
30°	7865	7851	7833
35°	7568	7511	7481
40°	7164	7082	7025
45°	6701	6578	6498
50°	6158	5993	5891
55°	5616	5410	5252
60°	5101	4826	4701
65°	4594	4336	4262
70°	4208	3934	4043
75°	3932	3751	4029
80°	3901	3829	4206
85°	3977	4010	4585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	4.0
10°-20°	1491.0	11.4
20°-30°	2202.7	16.9
30°-40°	2504.3	19.2
40°-50°	2338.7	17.9
50°-60°	1818.7	13.9
60°-70°	1206.8	9.3
70°-80°	698.4	5.4
80°-90°	253.9	1.9
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°	4218.2	32.4
0°-40°	6722.5	51.6
0°-60°	10879.9	83.4
0°-90°	13039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5542	5542	5542	5542	5542	
5°	5546	5517	5515	5525	5538	526
15°	5313	5287	5285	5283	5317	1497
25°	4806	4785	4794	4783	4804	2210
35°	4048	4027	4017	3988	4001	2527
45°	3094	3069	3037	2998	3000	2384
55°	2103	2073	2026	1973	1967	1886
65°	1268	1229	1196	1174	1176	1267
75°	664	648	634	662	681	711
85°	226	222	228	259	261	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5541.6	5541.6	5541.6	5541.6	5541.6
2.5°	5549.7	5533.4	5541.6	5535.5	5553.8
5°	5545.7	5517.1	5515.1	5525.3	5537.5
7.5°	5506.9	5476.4	5482.5	5482.5	5502.8
10°	5460.1	5429.5	5433.5	5435.6	5458.0
12.5°	5396.9	5366.3	5368.3	5366.3	5388.7
15°	5313.3	5286.8	5284.8	5282.8	5317.3
17.5°	5211.4	5174.7	5187.0	5189.0	5207.4
20°	5093.2	5064.6	5072.8	5070.8	5109.5
22.5°	4952.5	4932.2	4938.3	4934.2	4970.9
25°	4805.8	4785.4	4793.6	4783.4	4803.8
27.5°	4640.7	4626.5	4618.3	4612.2	4626.5
30°	4447.1	4439.0	4439.0	4412.4	4428.8
32.5°	4263.7	4237.2	4237.2	4227.0	4216.8
35°	4047.6	4027.3	4017.1	3988.5	4000.8
37.5°	3831.6	3784.7	3780.6	3758.3	3758.3
40°	3583.0	3556.5	3542.2	3517.7	3513.6
42.5°	3346.5	3320.0	3295.6	3254.8	3246.7
45°	3093.8	3069.4	3036.8	2998.0	3000.1
47.5°	2843.2	2808.5	2777.9	2731.0	2724.9
50°	2584.3	2559.9	2515.0	2474.3	2472.2
52.5°	2341.8	2303.1	2262.3	2213.4	2213.4
55°	2103.3	2072.7	2025.9	1972.8	1966.7
57.5°	1875.0	1846.5	1793.5	1754.8	1744.6
60°	1665.2	1624.4	1575.5	1542.8	1534.7
62.5°	1455.2	1418.5	1381.8	1349.2	1347.2
65°	1267.7	1228.9	1196.4	1173.9	1176.0
67.5°	1098.5	1065.9	1029.3	1023.1	1025.2
70°	939.6	904.9	878.4	892.7	902.9
72.5°	788.7	770.4	752.1	772.4	786.7
75°	664.4	648.1	633.8	662.4	680.8
77.5°	550.3	538.0	536.0	560.5	576.8
80°	442.3	428.0	434.1	462.7	476.9
82.5°	336.3	326.1	328.1	362.8	373.0
85°	226.3	222.2	228.2	258.8	260.9
87.5°	120.3	120.3	124.4	142.6	136.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)