

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: P231787

Luminaire Tested: **24GR-LD5-130-F1-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231787
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-LD5-130-F1-UNV-L950-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13303.3 lumens
Efficiency: N/A
Efficacy: 134.1 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

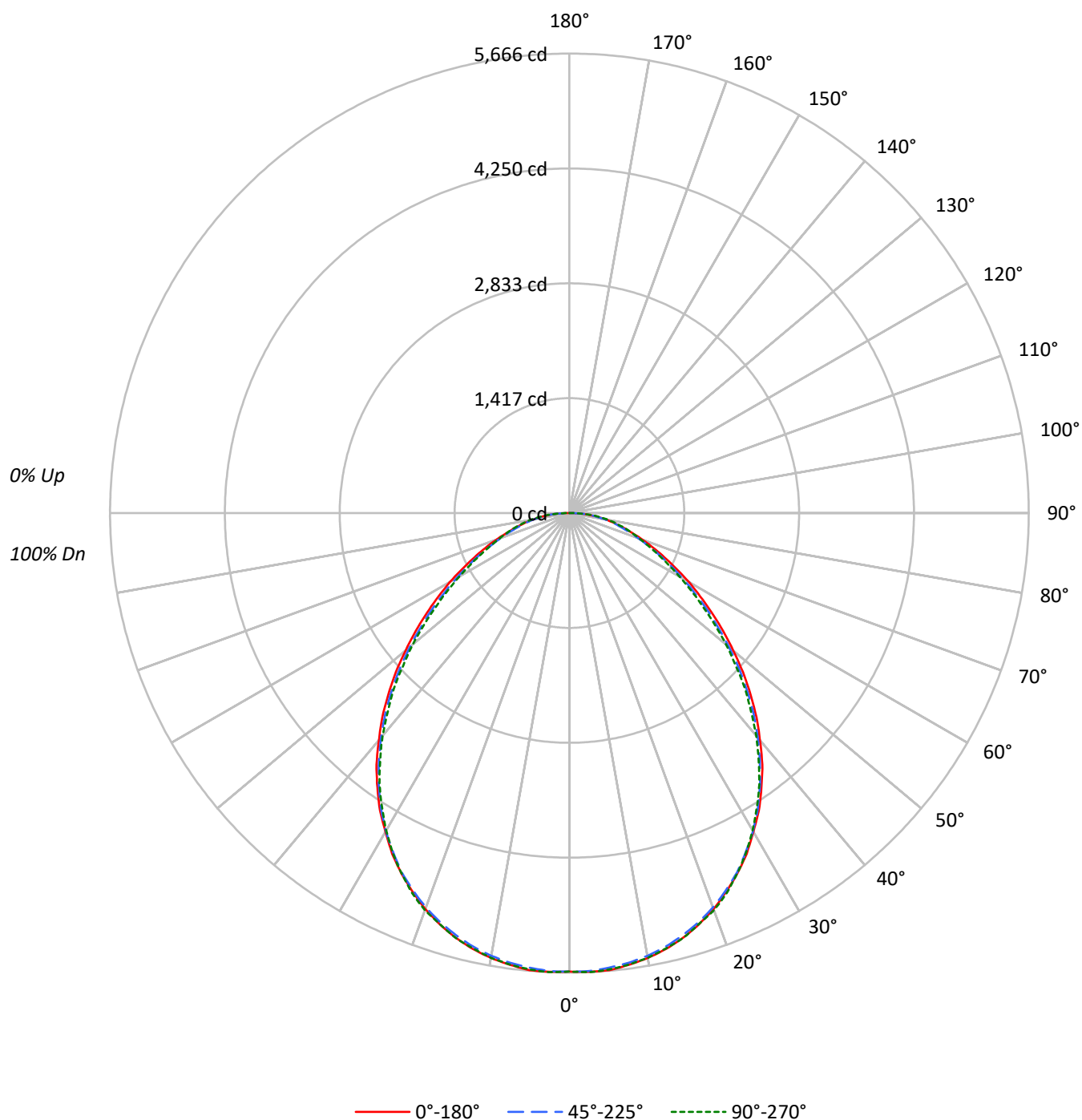
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			95	92	90			91
2	100	92	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	80	73	68		78	71	66			75	70	65			72
4	85	73	65	59	82	72	64	58		70	63	57			67	61	57			65
5	78	66	57	51	76	65	57	51		63	56	50			61	55	50			59
6	72	60	51	45	71	59	51	45		57	50	44			55	49	44			54
7	67	54	46	40	66	54	46	40		52	45	40			51	44	39			49
8	63	50	42	36	61	49	41	36		48	41	36			47	40	36			46
9	59	46	38	33	58	45	38	33		44	37	32			43	37	32			42
10	55	43	35	30	54	42	35	30		41	34	30			40	34	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8660	8660	8660
5°	8699	8651	8686
10°	8664	8622	8661
15°	8596	8550	8602
20°	8470	8436	8497
25°	8286	8265	8283
30°	8025	8010	7991
35°	7722	7663	7632
40°	7309	7226	7168
45°	6837	6711	6630
50°	6283	6114	6010
55°	5730	5519	5358
60°	5204	4924	4796
65°	4687	4424	4348
70°	4293	4014	4125
75°	4012	3827	4110
80°	3981	3906	4292
85°	4056	4093	4678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.1	4.0
10°-20°	1521.3	11.4
20°-30°	2247.4	16.9
30°-40°	2555.1	19.2
40°-50°	2386.1	17.9
50°-60°	1855.6	13.9
60°-70°	1231.2	9.3
70°-80°	712.5	5.4
80°-90°	259.1	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°	4303.7	32.4
0°-40°	6858.8	51.6
0°-60°	11100.5	83.4
0°-90°	13303.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13303.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5654	5654	5654	5654	5654	
5°	5658	5629	5627	5637	5650	537
15°	5421	5394	5392	5390	5425	1527
25°	4903	4882	4891	4880	4901	2254
35°	4130	4109	4098	4069	4082	2578
45°	3156	3132	3098	3059	3061	2432
55°	2146	2115	2067	2013	2007	1924
65°	1293	1254	1221	1198	1200	1293
75°	678	661	647	676	694	725
85°	231	227	233	264	266	251
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5653.9	5653.9	5653.9	5653.9	5653.9
2.5°	5662.2	5645.5	5653.9	5647.6	5666.4
5°	5658.0	5629.0	5626.9	5637.3	5649.7
7.5°	5618.5	5587.4	5593.6	5593.6	5614.4
10°	5570.7	5539.5	5543.7	5545.8	5568.7
12.5°	5506.2	5475.1	5477.1	5475.1	5497.9
15°	5421.0	5393.9	5391.9	5389.8	5425.1
17.5°	5317.0	5279.6	5292.1	5294.2	5312.9
20°	5196.5	5167.3	5175.6	5173.5	5213.0
22.5°	5053.0	5032.1	5038.4	5034.2	5071.7
25°	4903.3	4882.4	4890.8	4880.3	4901.2
27.5°	4734.8	4720.3	4711.9	4705.7	4720.3
30°	4537.3	4529.0	4529.0	4502.0	4518.5
32.5°	4350.1	4323.0	4323.0	4312.7	4302.3
35°	4129.7	4108.9	4098.5	4069.4	4081.9
37.5°	3909.3	3861.5	3857.3	3834.4	3834.4
40°	3655.6	3628.5	3614.0	3589.0	3584.9
42.5°	3414.4	3387.4	3362.4	3320.8	3312.5
45°	3156.5	3131.6	3098.3	3058.8	3060.9
47.5°	2900.8	2865.4	2834.2	2786.4	2780.1
50°	2636.7	2611.7	2566.0	2524.4	2522.3
52.5°	2389.2	2349.7	2308.1	2258.3	2258.3
55°	2146.0	2114.7	2066.9	2012.8	2006.6
57.5°	1913.1	1884.0	1829.9	1790.3	1780.0
60°	1698.9	1657.3	1607.4	1574.1	1565.7
62.5°	1484.7	1447.3	1409.9	1376.6	1374.5
65°	1293.4	1253.9	1220.6	1197.7	1199.8
67.5°	1120.8	1087.5	1050.1	1043.9	1046.0
70°	958.6	923.3	896.3	910.8	921.2
72.5°	804.7	786.1	767.3	788.1	802.6
75°	677.9	661.2	646.7	675.8	694.5
77.5°	561.5	549.0	546.9	571.8	588.5
80°	451.3	436.7	442.9	472.0	486.6
82.5°	343.1	332.7	334.8	370.1	380.6
85°	230.8	226.7	232.9	264.1	266.2
87.5°	122.7	122.7	126.9	145.6	139.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)