

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: P231807

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

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-130-A-UNV-L950-CD2-U  
Description: METALUX 2X4 GRLED TROFFER  
WITH A LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13458.9 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

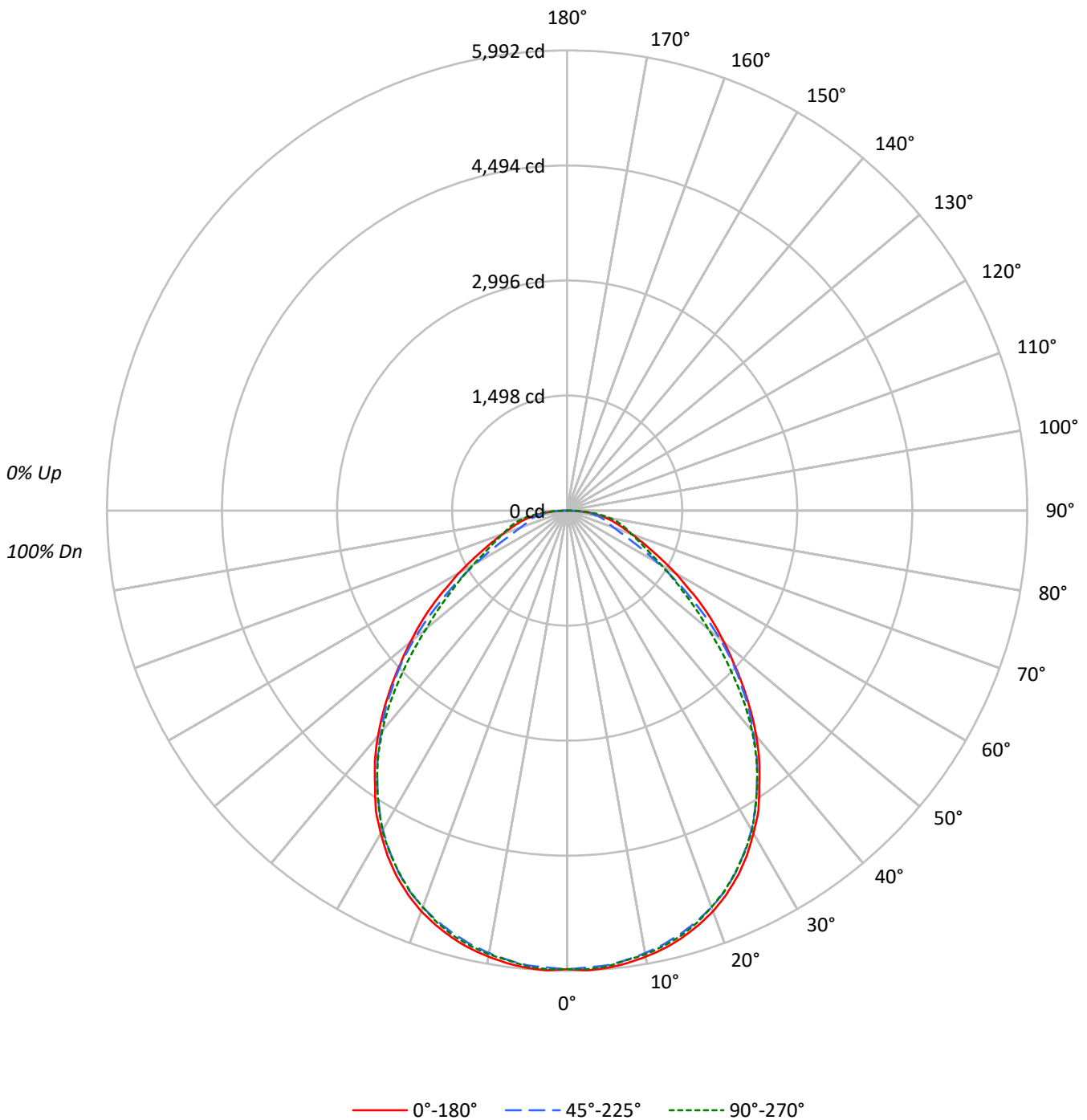
Input Watts (W): 99.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9146	9146	9146
5°	9191	9140	9162
10°	9174	9100	9126
15°	9139	9047	9086
20°	9052	8960	8957
25°	8876	8781	8774
30°	8583	8495	8513
35°	8153	8059	8071
40°	7666	7533	7487
45°	7026	6931	6656
50°	6352	6178	5712
55°	5702	5191	4925
60°	4993	4178	4331
65°	4355	3285	3986
70°	3985	2868	3985
75°	3987	3051	4393
80°	4328	3594	5007
85°	4750	4056	5372



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.5	4.2
10°-20°	1613.8	12.0
20°-30°	2392.9	17.8
30°-40°	2699.5	20.1
40°-50°	2445.0	18.2
50°-60°	1763.9	13.1
60°-70°	1053.2	7.8
70°-80°	650.9	4.8
80°-90°	274.2	2.0
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°	4572.2	34.0
0°-40°	7271.7	54.0
0°-60°	11480.6	85.3
0°-90°	13458.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13458.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5972	5972	5972	5972	5972	
5°	5978	5970	5944	5938	5959	568
15°	5764	5728	5705	5708	5730	1625
25°	5252	5223	5196	5177	5192	2413
35°	4360	4354	4310	4312	4316	2728
45°	3244	3223	3200	3121	3073	2500
55°	2135	2069	1944	1848	1844	1906
65°	1202	1058	906	1029	1100	1209
75°	674	584	516	642	742	719
85°	270	237	231	302	306	282
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5971.6	5971.6	5971.6	5971.6	5971.6
2.5°	5992.4	5975.7	5954.9	5967.4	5977.8
5°	5977.8	5969.5	5944.5	5938.3	5959.0
7.5°	5946.6	5925.8	5903.0	5913.4	5905.0
10°	5898.8	5880.1	5850.9	5853.0	5867.6
12.5°	5840.6	5817.7	5786.5	5794.8	5807.3
15°	5763.7	5728.3	5705.4	5707.5	5730.4
17.5°	5665.9	5638.9	5609.8	5616.0	5626.4
20°	5553.6	5539.1	5497.5	5485.0	5495.4
22.5°	5412.2	5385.2	5362.4	5356.1	5358.2
25°	5252.2	5223.0	5196.0	5177.3	5191.8
27.5°	5065.0	5040.0	5004.7	4998.4	5010.9
30°	4852.9	4834.2	4803.1	4794.7	4813.4
32.5°	4636.7	4605.5	4561.8	4561.8	4566.0
35°	4360.2	4353.9	4310.2	4312.3	4316.5
37.5°	4110.7	4081.5	4056.6	4031.7	4044.1
40°	3834.1	3800.8	3767.6	3750.9	3744.7
42.5°	3536.8	3511.8	3497.3	3437.0	3422.4
45°	3243.6	3222.9	3199.9	3120.9	3073.1
47.5°	2944.2	2940.0	2921.3	2782.1	2734.2
50°	2665.6	2659.4	2592.8	2445.2	2397.4
52.5°	2401.5	2359.9	2272.6	2127.0	2118.8
55°	2135.4	2068.8	1944.1	1848.5	1844.3
57.5°	1854.7	1775.7	1648.8	1596.9	1623.9
60°	1630.1	1509.5	1364.0	1370.2	1413.9
62.5°	1397.2	1262.1	1118.7	1181.0	1233.0
65°	1201.8	1058.3	906.5	1029.2	1099.9
67.5°	1031.3	898.3	752.7	916.9	985.5
70°	889.9	781.8	640.4	813.0	889.9
72.5°	777.6	677.9	567.7	729.8	819.2
75°	673.7	584.2	515.6	642.5	742.3
77.5°	584.2	497.0	465.7	567.7	665.4
80°	490.7	411.7	407.5	494.9	567.7
82.5°	382.6	328.5	328.5	413.8	457.5
85°	270.3	237.1	230.8	301.5	305.7
87.5°	139.3	133.0	120.6	158.1	158.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)