

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: P231805

Luminaire Tested: **24GR-LD5-130-A-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231805
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-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11429.1 lumens
Efficiency: N/A
Efficacy: 115.2 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

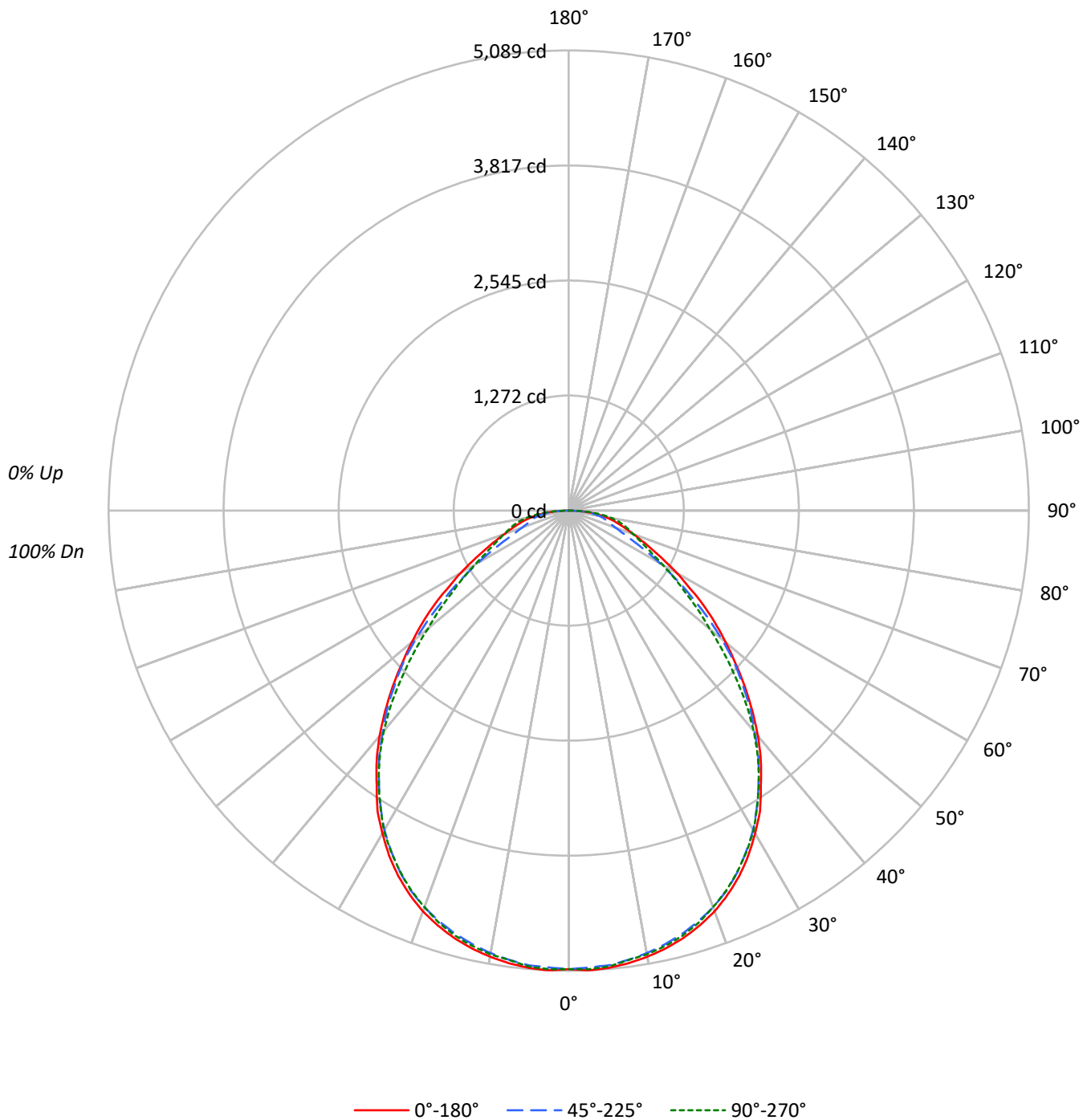
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	7767	7767	7767
5°	7805	7761	7780
10°	7790	7727	7749
15°	7761	7682	7716
20°	7687	7609	7606
25°	7537	7457	7451
30°	7288	7213	7229
35°	6923	6844	6854
40°	6510	6397	6358
45°	5966	5886	5653
50°	5393	5246	4851
55°	4842	4408	4182
60°	4240	3548	3678
65°	3698	2790	3385
70°	3384	2435	3384
75°	3385	2591	3731
80°	3675	3052	4251
85°	4033	3444	4562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.2	4.2
10°-20°	1370.4	12.0
20°-30°	2032.0	17.8
30°-40°	2292.4	20.1
40°-50°	2076.2	18.2
50°-60°	1497.9	13.1
60°-70°	894.4	7.8
70°-80°	552.7	4.8
80°-90°	232.9	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°	3882.6	34.0
0°-40°	6175.0	54.0
0°-60°	9749.1	85.3
0°-90°	11429.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11429.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5071	5071	5071	5071	5071	
5°	5076	5069	5048	5043	5060	482
15°	4894	4864	4845	4847	4866	1380
25°	4460	4435	4412	4396	4409	2049
35°	3703	3697	3660	3662	3666	2317
45°	2754	2737	2717	2650	2610	2123
55°	1813	1757	1651	1570	1566	1619
65°	1020	899	770	874	934	1027
75°	572	496	438	546	630	611
85°	230	201	196	256	260	240
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5070.9	5070.9	5070.9	5070.9	5070.9
2.5°	5088.6	5074.5	5056.8	5067.4	5076.3
5°	5076.3	5069.2	5048.0	5042.7	5060.4
7.5°	5049.8	5032.1	5012.7	5021.5	5014.5
10°	5009.1	4993.2	4968.6	4970.3	4982.7
12.5°	4959.8	4940.3	4913.8	4920.9	4931.4
15°	4894.4	4864.4	4844.9	4846.7	4866.2
17.5°	4811.4	4788.5	4763.7	4769.0	4777.8
20°	4716.1	4703.7	4668.4	4657.8	4666.6
22.5°	4596.0	4573.1	4553.6	4548.3	4550.0
25°	4460.0	4435.3	4412.3	4396.5	4408.9
27.5°	4301.2	4279.9	4249.9	4244.6	4255.2
30°	4121.1	4105.2	4078.6	4071.6	4087.5
32.5°	3937.4	3910.9	3873.9	3873.9	3877.4
35°	3702.6	3697.2	3660.2	3662.0	3665.5
37.5°	3490.7	3466.0	3444.8	3423.6	3434.2
40°	3255.8	3227.6	3199.4	3185.2	3179.9
42.5°	3003.4	2982.2	2969.8	2918.6	2906.2
45°	2754.4	2736.7	2717.4	2650.2	2609.7
47.5°	2500.2	2496.6	2480.7	2362.4	2321.9
50°	2263.5	2258.3	2201.8	2076.4	2035.8
52.5°	2039.3	2004.0	1929.8	1806.2	1799.2
55°	1813.3	1756.9	1650.9	1569.7	1566.1
57.5°	1575.0	1507.9	1400.2	1356.0	1379.0
60°	1384.3	1281.9	1158.3	1163.6	1200.6
62.5°	1186.5	1071.8	950.0	1002.9	1047.0
65°	1020.5	898.7	769.8	874.0	934.1
67.5°	875.8	762.8	639.2	778.7	836.9
70°	755.7	663.8	543.8	690.4	755.7
72.5°	660.4	575.6	482.0	619.7	695.6
75°	572.0	496.1	437.9	545.6	630.4
77.5°	496.1	422.0	395.5	482.0	565.0
80°	416.7	349.6	346.0	420.2	482.0
82.5°	324.9	279.0	279.0	351.4	388.4
85°	229.5	201.3	196.0	256.0	259.6
87.5°	118.3	113.0	102.4	134.2	134.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)