

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: P225927

Luminaire Tested: **14GR-LD5-20-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1898.2 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

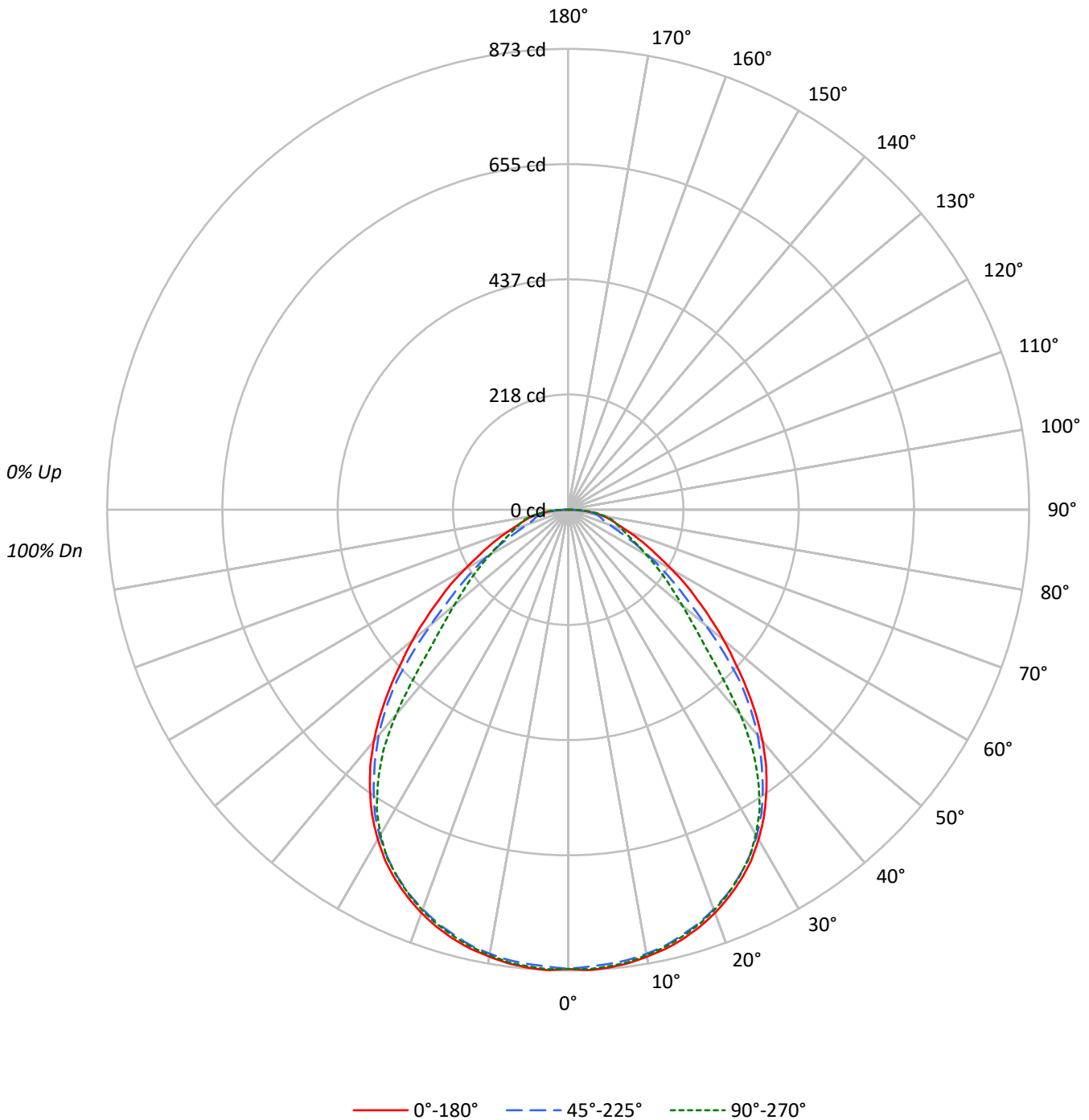
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2931	2931	2931
5°	2945	2923	2938
10°	2942	2923	2931
15°	2936	2910	2919
20°	2915	2888	2896
25°	2877	2849	2851
30°	2806	2777	2765
35°	2691	2643	2582
40°	2520	2455	2234
45°	2275	2189	1746
50°	2018	1778	1477
55°	1761	1458	1303
60°	1527	1200	1150
65°	1339	963	1061
70°	1194	817	1069
75°	1165	862	1194
80°	1292	1087	1368
85°	1349	1156	1601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	4.3
10°-20°	236.4	12.5
20°-30°	353.7	18.6
30°-40°	399.2	21.0
40°-50°	338.7	17.8
50°-60°	229.2	12.1
60°-70°	136.8	7.2
70°-80°	85.7	4.5
80°-90°	36.0	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°	672.6	35.4
0°-40°	1071.9	56.5
0°-60°	1639.8	86.4
0°-90°	1898.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	871	868	864	870	868	83
15°	842	840	834	840	837	237
25°	774	771	766	770	767	356
35°	654	650	642	637	628	408
45°	478	479	459	394	366	368
55°	300	286	248	222	222	270
65°	168	139	121	129	133	168
75°	90	80	66	87	92	96
85°	35	33	30	39	41	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.9	869.9	869.9	869.9	869.9
2.5°	873.0	870.3	866.3	871.6	871.2
5°	870.8	868.1	864.1	870.3	868.5
7.5°	866.8	864.6	860.6	866.3	864.6
10°	859.8	857.9	854.4	859.3	856.7
12.5°	852.2	850.9	846.5	850.9	848.3
15°	841.7	839.9	834.2	839.9	836.8
17.5°	828.5	826.2	821.4	826.2	823.6
20°	813.0	810.4	805.5	810.4	807.7
22.5°	794.4	792.2	787.9	792.2	788.8
25°	773.8	771.1	766.2	769.8	766.7
27.5°	749.9	746.4	742.0	744.7	742.9
30°	721.3	716.9	713.8	713.8	710.7
32.5°	690.0	686.9	681.6	678.5	674.6
35°	654.3	649.8	642.4	636.6	627.8
37.5°	615.9	610.6	601.3	586.9	574.9
40°	572.8	566.1	558.2	529.5	507.9
42.5°	526.4	525.1	511.4	462.5	432.5
45°	477.5	479.2	459.4	393.7	366.4
47.5°	428.1	434.3	398.1	333.8	319.7
50°	384.9	387.1	339.1	289.7	281.7
52.5°	340.3	336.8	289.2	254.8	249.1
55°	299.8	285.6	248.2	222.2	221.8
57.5°	264.1	238.1	212.0	192.6	194.8
60°	226.6	197.6	178.1	167.5	170.6
62.5°	193.6	165.8	148.6	145.5	150.8
65°	168.0	139.3	120.8	128.8	133.1
67.5°	143.7	119.5	98.3	117.3	119.0
70°	121.2	103.6	82.9	108.0	108.5
72.5°	102.7	91.7	71.9	97.9	99.2
75°	89.5	79.8	66.2	87.3	91.7
77.5°	78.4	68.3	61.2	75.3	82.9
80°	66.6	55.1	56.0	63.1	70.5
82.5°	51.1	42.8	44.5	52.1	57.3
85°	34.9	33.0	29.9	38.8	41.4
87.5°	18.5	17.7	15.5	22.0	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)