

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: P225853

Luminaire Tested: **14GR-LD5-28-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A125-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2314.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

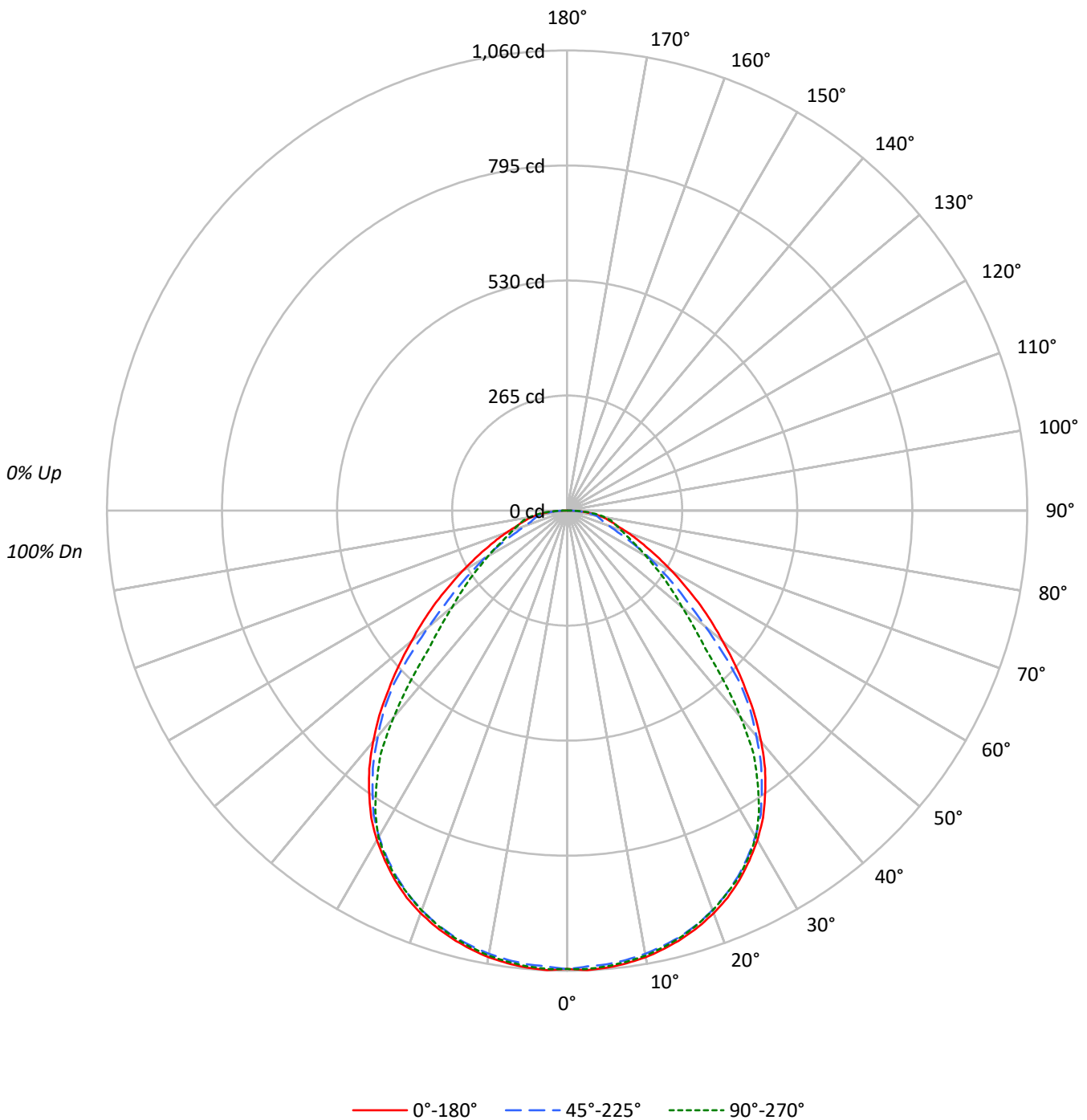
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3558	3558	3558
5°	3575	3548	3565
10°	3574	3547	3561
15°	3562	3539	3545
20°	3538	3511	3515
25°	3491	3459	3469
30°	3411	3373	3382
35°	3271	3215	3147
40°	3058	2982	2737
45°	2768	2689	2146
50°	2448	2175	1810
55°	2167	1788	1596
60°	1871	1479	1415
65°	1627	1178	1301
70°	1470	1010	1301
75°	1413	1056	1453
80°	1574	1343	1698
85°	1659	1430	2034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	4.3
10°-20°	287.1	12.4
20°-30°	429.6	18.6
30°-40°	486.3	21.0
40°-50°	414.2	17.9
50°-60°	280.5	12.1
60°-70°	167.5	7.2
70°-80°	104.6	4.5
80°-90°	44.2	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°	816.8	35.3
0°-40°	1303.1	56.3
0°-60°	1997.8	86.3
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1057	1054	1049	1055	1054	100
15°	1021	1017	1015	1021	1016	288
25°	939	936	930	935	933	432
35°	795	790	782	774	765	496
45°	581	582	564	481	450	448
55°	369	348	304	272	272	330
65°	204	170	148	158	163	206
75°	108	97	81	106	112	117
85°	43	40	37	47	53	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.0	1056.0	1056.0	1056.0	1056.0
2.5°	1059.7	1057.0	1051.1	1058.1	1057.0
5°	1057.0	1054.3	1049.0	1055.4	1053.9
7.5°	1051.7	1049.0	1044.1	1050.6	1048.0
10°	1044.7	1041.5	1036.7	1043.6	1040.9
12.5°	1033.9	1030.8	1026.5	1033.4	1029.7
15°	1021.1	1017.3	1014.6	1021.1	1016.3
17.5°	1005.5	1002.3	998.5	1005.0	999.6
20°	986.7	984.0	979.2	983.0	980.3
22.5°	965.2	961.5	956.7	961.0	957.2
25°	939.0	936.2	930.3	934.7	933.0
27.5°	908.8	907.3	900.3	905.6	903.0
30°	876.6	872.3	867.0	868.6	869.2
32.5°	839.6	834.2	830.0	826.2	822.4
35°	795.1	790.2	781.6	773.6	765.0
37.5°	748.9	742.4	733.9	716.1	705.4
40°	695.2	692.0	678.0	653.4	622.2
42.5°	640.4	637.2	624.9	569.6	535.8
45°	580.8	582.5	564.2	481.0	450.4
47.5°	524.0	528.2	488.5	410.7	394.6
50°	467.0	471.9	415.0	354.8	345.2
52.5°	417.2	413.3	353.7	311.3	307.1
55°	368.9	348.4	304.4	271.7	271.7
57.5°	319.4	290.4	258.8	237.8	237.8
60°	277.6	241.6	219.5	205.6	209.9
62.5°	238.9	200.8	182.0	179.3	184.7
65°	204.0	170.2	147.7	157.9	163.2
67.5°	175.5	145.5	121.3	142.8	146.0
70°	149.2	126.7	102.5	131.6	132.1
72.5°	125.1	111.6	88.1	119.2	121.3
75°	108.5	97.2	81.1	106.3	111.6
77.5°	95.0	83.2	74.6	91.8	102.0
80°	81.1	68.1	69.2	77.3	87.5
82.5°	62.2	52.6	54.8	63.3	71.4
85°	42.9	39.8	37.0	46.7	52.6
87.5°	23.1	21.5	18.8	26.3	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)