

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: P225860

Luminaire Tested: **14GR-LD5-28-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225860
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-L935-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: 2410.6 lumens
Efficiency: N/A
Efficacy: 96.8 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

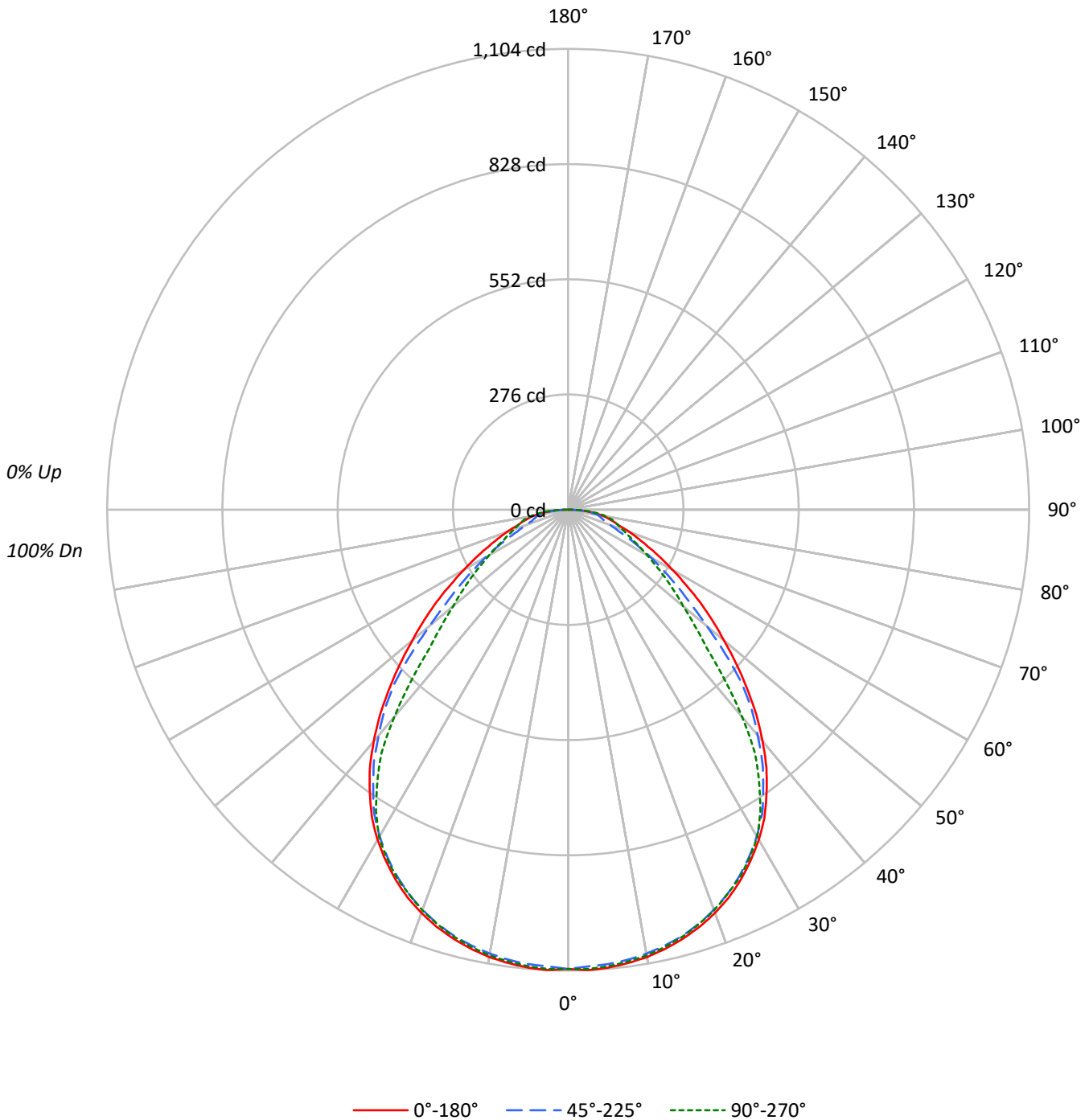
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	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
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3707	3707	3707
5°	3725	3696	3713
10°	3724	3695	3710
15°	3711	3687	3693
20°	3686	3658	3662
25°	3636	3603	3614
30°	3553	3514	3523
35°	3407	3350	3278
40°	3186	3107	2851
45°	2883	2801	2236
50°	2550	2266	1885
55°	2257	1862	1663
60°	1949	1541	1474
65°	1694	1226	1355
70°	1532	1052	1356
75°	1471	1099	1515
80°	1638	1401	1768
85°	1728	1492	2119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	4.3
10°-20°	299.0	12.4
20°-30°	447.5	18.6
30°-40°	506.6	21.0
40°-50°	431.5	17.9
50°-60°	292.2	12.1
60°-70°	174.4	7.2
70°-80°	109.0	4.5
80°-90°	46.1	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°	850.9	35.3
0°-40°	1357.5	56.3
0°-60°	2081.1	86.3
0°-90°	2410.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1101	1098	1093	1100	1098	105
15°	1064	1060	1057	1064	1059	300
25°	978	975	969	974	972	450
35°	828	823	814	806	797	516
45°	605	607	588	501	469	467
55°	384	363	317	283	283	344
65°	212	177	154	164	170	214
75°	113	101	84	111	116	122
85°	45	41	39	49	55	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.1	1100.1	1100.1	1100.1	1100.1
2.5°	1104.0	1101.2	1095.0	1102.3	1101.2
5°	1101.2	1098.4	1092.8	1099.5	1097.8
7.5°	1095.6	1092.8	1087.7	1094.5	1091.7
10°	1088.3	1084.9	1079.9	1087.1	1084.3
12.5°	1077.1	1073.7	1069.3	1076.5	1072.6
15°	1063.7	1059.8	1057.0	1063.7	1058.7
17.5°	1047.5	1044.1	1040.2	1046.9	1041.3
20°	1027.9	1025.1	1020.1	1024.0	1021.2
22.5°	1005.6	1001.6	996.5	1001.0	997.1
25°	978.1	975.3	969.2	973.7	972.0
27.5°	946.8	945.1	937.9	943.4	940.6
30°	913.2	908.7	903.2	904.8	905.4
32.5°	874.6	869.0	864.6	860.7	856.8
35°	828.2	823.2	814.3	805.9	797.0
37.5°	780.1	773.4	764.5	746.0	734.8
40°	724.2	720.9	706.4	680.6	648.1
42.5°	667.2	663.8	650.9	593.4	558.1
45°	605.1	606.8	587.8	501.1	469.2
47.5°	545.8	550.3	508.9	427.8	411.1
50°	486.5	491.6	432.3	369.7	359.6
52.5°	434.5	430.6	368.6	324.4	319.9
55°	384.2	363.0	317.0	283.0	283.0
57.5°	332.8	302.5	269.5	247.8	247.8
60°	289.2	251.7	228.7	214.2	218.7
62.5°	248.9	209.2	189.5	186.7	192.4
65°	212.5	177.3	153.8	164.4	170.0
67.5°	182.8	151.6	126.4	148.8	152.2
70°	155.5	132.0	106.8	137.0	137.6
72.5°	130.3	116.4	91.7	124.2	126.4
75°	113.0	101.2	84.4	110.8	116.4
77.5°	99.0	86.7	77.8	95.6	106.2
80°	84.4	71.1	72.2	80.5	91.1
82.5°	64.9	54.8	57.0	66.0	74.4
85°	44.7	41.4	38.6	48.6	54.8
87.5°	24.1	22.4	19.6	27.4	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)