

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: P225874

Luminaire Tested: **14GR-LD5-28-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225874
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-L950-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: 2624.4 lumens
Efficiency: N/A
Efficacy: 105.4 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

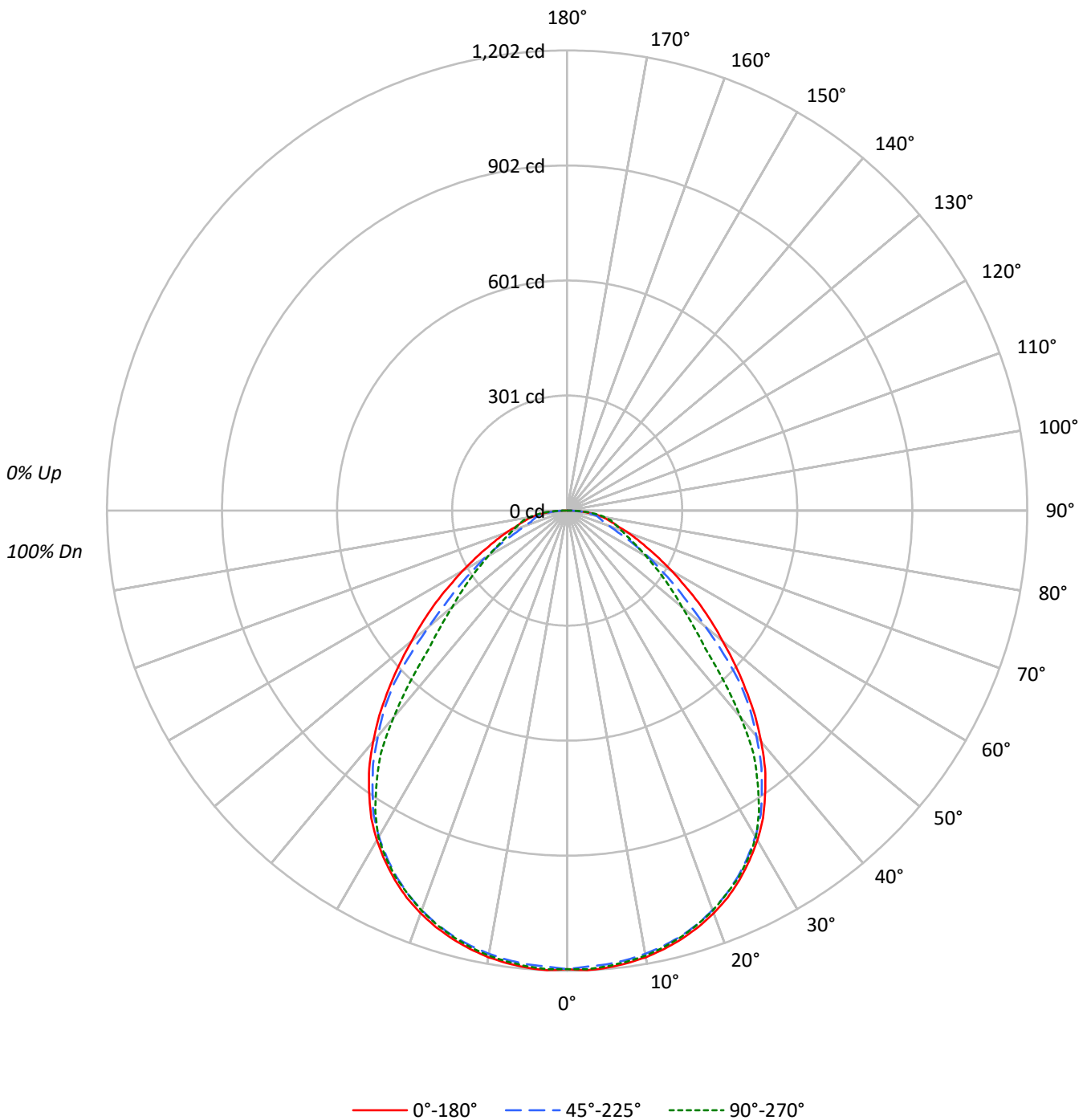
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4036	4036	4036
5°	4055	4024	4043
10°	4054	4023	4039
15°	4040	4014	4020
20°	4013	3982	3986
25°	3959	3923	3934
30°	3869	3826	3835
35°	3709	3647	3569
40°	3468	3383	3104
45°	3139	3049	2434
50°	2777	2467	2052
55°	2457	2029	1809
60°	2121	1678	1605
65°	1844	1335	1476
70°	1668	1146	1476
75°	1601	1196	1650
80°	1783	1523	1927
85°	1883	1624	2308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	4.3
10°-20°	325.6	12.4
20°-30°	487.2	18.6
30°-40°	551.5	21.0
40°-50°	469.8	17.9
50°-60°	318.1	12.1
60°-70°	189.9	7.2
70°-80°	118.6	4.5
80°-90°	50.2	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°	926.4	35.3
0°-40°	1477.9	56.3
0°-60°	2265.7	86.3
0°-90°	2624.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2624.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1199	1196	1190	1197	1195	114
15°	1158	1154	1151	1158	1152	327
25°	1065	1062	1055	1060	1058	490
35°	902	896	886	877	868	562
45°	659	661	640	546	511	508
55°	418	395	345	308	308	374
65°	231	193	167	179	185	233
75°	123	110	92	121	127	133
85°	49	45	42	53	60	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.7	1197.7	1197.7	1197.7	1197.7
2.5°	1201.8	1198.8	1192.1	1200.0	1198.8
5°	1198.8	1195.8	1189.7	1197.0	1195.2
7.5°	1192.7	1189.7	1184.2	1191.6	1188.5
10°	1184.8	1181.2	1175.7	1183.6	1180.5
12.5°	1172.6	1169.0	1164.2	1172.1	1167.8
15°	1158.1	1153.8	1150.7	1158.1	1152.5
17.5°	1140.4	1136.8	1132.5	1139.8	1133.7
20°	1119.0	1116.0	1110.6	1114.8	1111.7
22.5°	1094.7	1090.5	1085.0	1089.8	1085.6
25°	1064.9	1061.9	1055.1	1060.1	1058.1
27.5°	1030.8	1028.9	1021.0	1027.1	1024.1
30°	994.3	989.4	983.3	985.2	985.7
32.5°	952.2	946.1	941.3	937.0	932.8
35°	901.7	896.3	886.5	877.3	867.6
37.5°	849.4	842.0	832.3	812.2	800.1
40°	788.4	784.8	769.0	741.0	705.7
42.5°	726.4	722.7	708.7	646.0	607.6
45°	658.7	660.6	639.9	545.5	510.8
47.5°	594.2	599.1	554.1	465.7	447.5
50°	529.7	535.2	470.7	402.5	391.5
52.5°	473.1	468.8	401.2	353.2	348.3
55°	418.3	395.1	345.3	308.0	308.0
57.5°	362.3	329.4	293.5	269.7	269.7
60°	314.8	274.0	249.0	233.2	238.1
62.5°	270.9	227.7	206.4	203.4	209.5
65°	231.3	193.0	167.4	179.0	185.1
67.5°	199.1	165.0	137.6	162.0	165.6
70°	169.3	143.7	116.3	149.1	149.8
72.5°	141.9	126.7	99.8	135.1	137.6
75°	123.0	110.2	91.9	120.6	126.7
77.5°	107.7	94.4	84.6	104.1	115.7
80°	91.9	77.4	78.5	87.6	99.3
82.5°	70.6	59.7	62.1	71.9	81.0
85°	48.7	45.0	42.0	53.0	59.7
87.5°	26.2	24.4	21.3	29.8	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)