

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: P225859

Luminaire Tested: **14GR-LD5-24-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225859  
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-LD5-24-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: 2085.1 lumens  
Efficiency: N/A  
Efficacy: 99.3 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

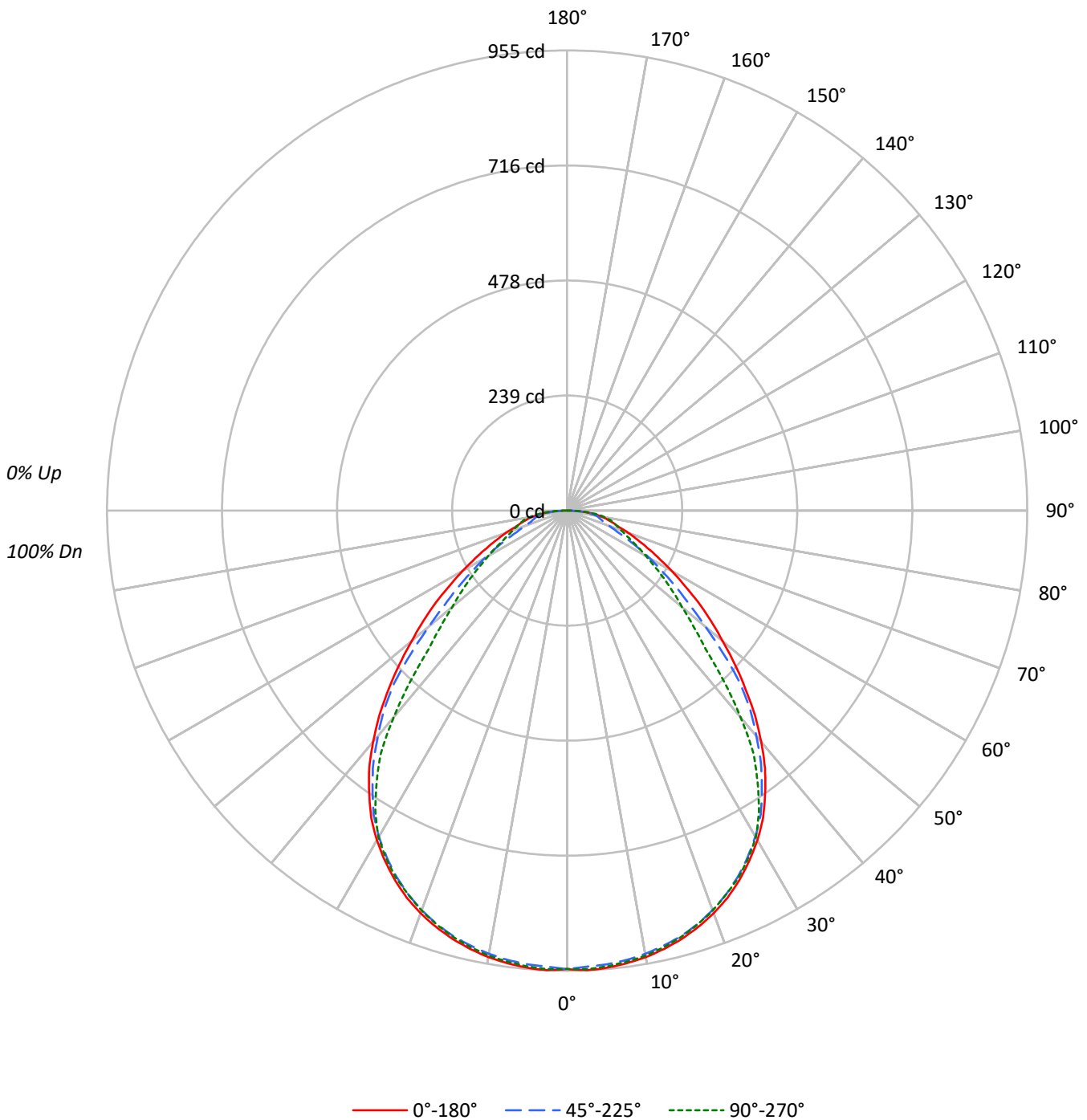
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3206	3206	3206
5°	3221	3197	3212
10°	3221	3196	3209
15°	3209	3189	3194
20°	3188	3164	3167
25°	3145	3117	3126
30°	3073	3040	3047
35°	2947	2897	2835
40°	2755	2687	2466
45°	2494	2423	1934
50°	2206	1960	1630
55°	1952	1611	1438
60°	1685	1334	1274
65°	1466	1060	1172
70°	1325	910	1172
75°	1273	950	1310
80°	1417	1211	1531
85°	1496	1291	1833



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	4.3
10°-20°	258.6	12.4
20°-30°	387.1	18.6
30°-40°	438.2	21.0
40°-50°	373.2	17.9
50°-60°	252.7	12.1
60°-70°	150.9	7.2
70°-80°	94.3	4.5
80°-90°	39.8	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°	736.0	35.3
0°-40°	1174.1	56.3
0°-60°	1800.1	86.3
0°-90°	2085.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2085.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	952	950	945	951	950	91
15°	920	917	914	920	916	260
25°	846	844	838	842	841	389
35°	716	712	704	697	689	447
45°	523	525	508	433	406	404
55°	332	314	274	245	245	297
65°	184	153	133	142	147	185
75°	98	88	73	96	101	106
85°	39	36	33	42	47	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	951.5	951.5	951.5	951.5	951.5
2.5°	954.9	952.4	947.2	953.4	952.4
5°	952.4	950.0	945.2	951.0	949.5
7.5°	947.6	945.2	940.9	946.6	944.2
10°	941.3	938.4	934.1	940.4	937.9
12.5°	931.6	928.7	924.9	931.2	927.8
15°	920.0	916.6	914.3	920.0	915.7
17.5°	906.0	903.1	899.7	905.5	900.7
20°	889.1	886.6	882.3	885.7	883.2
22.5°	869.7	866.3	862.0	865.9	862.5
25°	846.0	843.6	838.3	842.2	840.7
27.5°	819.0	817.4	811.2	816.0	813.6
30°	789.9	786.1	781.2	782.7	783.1
32.5°	756.5	751.7	747.8	744.4	741.0
35°	716.4	712.0	704.3	697.0	689.3
37.5°	674.8	668.9	661.2	645.3	635.6
40°	626.4	623.5	610.9	588.7	560.7
42.5°	577.1	574.2	563.0	513.2	482.7
45°	523.3	524.9	508.4	433.4	405.9
47.5°	472.1	476.0	440.2	370.0	355.6
50°	420.8	425.2	373.9	319.8	311.0
52.5°	375.9	372.5	318.8	280.6	276.7
55°	332.3	313.9	274.3	244.8	244.8
57.5°	287.8	261.7	233.2	214.3	214.3
60°	250.1	217.7	197.9	185.3	189.1
62.5°	215.2	180.9	164.0	161.6	166.4
65°	183.9	153.3	133.0	142.2	147.0
67.5°	158.2	131.1	109.3	128.7	131.6
70°	134.5	114.2	92.4	118.5	119.0
72.5°	112.7	100.6	79.3	107.4	109.3
75°	97.8	87.6	73.0	95.8	100.6
77.5°	85.6	75.0	67.2	82.7	91.9
80°	73.0	61.5	62.4	69.6	78.9
82.5°	56.1	47.4	49.3	57.1	64.3
85°	38.7	35.8	33.4	42.1	47.4
87.5°	20.8	19.4	16.9	23.7	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)