

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: P225858

Luminaire Tested: **14GR-LD5-20-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225858  
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-LD5-20-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: 1745.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

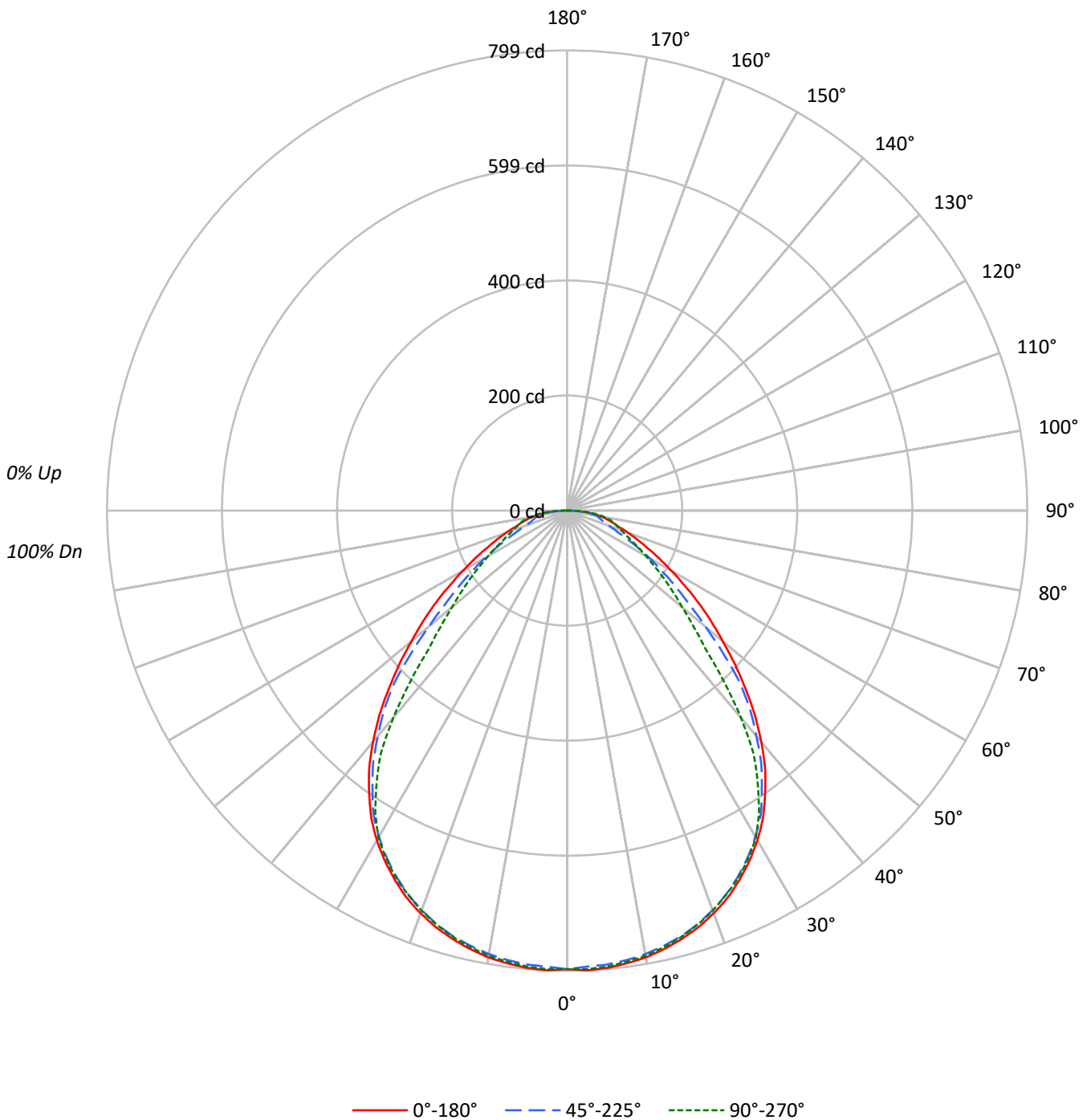
Input Watts (W): 17.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	52	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°	2683	2683	2683
5°	2696	2676	2688
10°	2696	2675	2686
15°	2686	2669	2674
20°	2668	2648	2651
25°	2632	2608	2616
30°	2572	2544	2550
35°	2466	2425	2373
40°	2306	2249	2064
45°	2087	2028	1619
50°	1846	1641	1365
55°	1634	1349	1203
60°	1411	1116	1067
65°	1226	888	981
70°	1108	763	981
75°	1065	795	1096
80°	1186	1013	1281
85°	1253	1083	1535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	4.3
10°-20°	216.5	12.4
20°-30°	324.0	18.6
30°-40°	366.7	21.0
40°-50°	312.4	17.9
50°-60°	211.5	12.1
60°-70°	126.3	7.2
70°-80°	78.9	4.5
80°-90°	33.3	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°	616.0	35.3
0°-40°	982.7	56.3
0°-60°	1506.5	86.3
0°-90°	1745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	797	795	791	796	795	76
15°	770	767	765	770	766	217
25°	708	706	702	705	704	326
35°	600	596	590	583	577	374
45°	438	439	426	363	340	338
55°	278	263	230	205	205	249
65°	154	128	111	119	123	155
75°	82	73	61	80	84	88
85°	32	30	28	35	40	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	796.3	796.3	796.3	796.3	796.3
2.5°	799.2	797.1	792.7	798.0	797.1
5°	797.1	795.1	791.1	795.9	794.7
7.5°	793.0	791.1	787.4	792.3	790.2
10°	787.8	785.4	781.7	787.0	785.0
12.5°	779.7	777.3	774.1	779.3	776.5
15°	770.0	767.2	765.2	770.0	766.4
17.5°	758.3	755.8	753.0	757.9	753.8
20°	744.1	742.0	738.4	741.3	739.2
22.5°	727.9	725.0	721.4	724.6	721.8
25°	708.0	706.0	701.6	704.8	703.6
27.5°	685.4	684.2	678.9	683.0	680.9
30°	661.1	657.9	653.8	655.0	655.4
32.5°	633.2	629.1	625.9	623.0	620.2
35°	599.6	595.9	589.5	583.4	576.9
37.5°	564.7	559.9	553.4	540.1	531.9
40°	524.3	521.8	511.3	492.7	469.2
42.5°	483.0	480.5	471.2	429.5	404.0
45°	438.0	439.3	425.5	362.7	339.7
47.5°	395.2	398.4	368.4	309.7	297.6
50°	352.2	355.9	313.0	267.6	260.3
52.5°	314.6	311.7	266.8	234.8	231.5
55°	278.1	262.7	229.6	204.8	204.8
57.5°	240.9	219.0	195.2	179.4	179.4
60°	209.3	182.2	165.6	155.0	158.3
62.5°	180.1	151.4	137.3	135.2	139.2
65°	153.8	128.4	111.4	119.0	123.1
67.5°	132.3	109.7	91.5	107.7	110.1
70°	112.5	95.5	77.4	99.2	99.6
72.5°	94.4	84.2	66.4	89.8	91.5
75°	81.8	73.3	61.1	80.2	84.2
77.5°	71.7	62.7	56.3	69.2	76.9
80°	61.1	51.4	52.2	58.3	66.0
82.5°	46.9	39.7	41.3	47.8	53.8
85°	32.4	29.9	28.0	35.2	39.7
87.5°	17.4	16.2	14.2	19.8	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)