

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: P225869

Luminaire Tested: **14GR-LD5-36-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225869  
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-LD5-36-A125-UNV-L940-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: 3248.2 lumens  
Efficiency: N/A  
Efficacy: 92.8 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

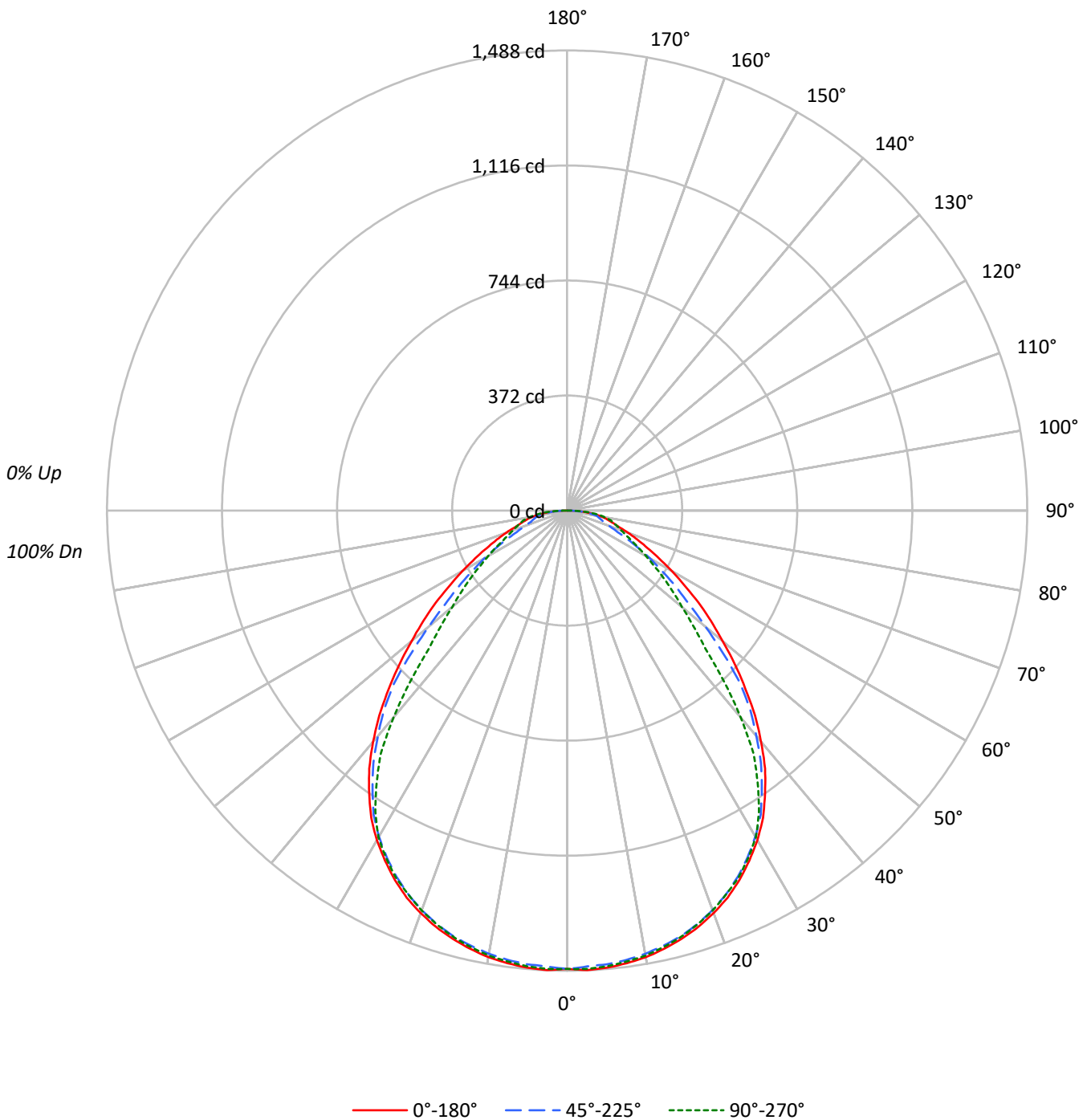
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4995	4995	4995
5°	5019	4981	5004
10°	5018	4979	4999
15°	5000	4968	4976
20°	4966	4929	4934
25°	4900	4855	4869
30°	4788	4735	4747
35°	4591	4513	4417
40°	4292	4187	3842
45°	3886	3774	3013
50°	3437	3054	2540
55°	3041	2510	2240
60°	2626	2077	1985
65°	2283	1653	1827
70°	2064	1419	1827
75°	1981	1482	2041
80°	2208	1886	2383
85°	2331	2010	2857



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	4.3
10°-20°	402.9	12.4
20°-30°	603.0	18.6
30°-40°	682.6	21.0
40°-50°	581.4	17.9
50°-60°	393.7	12.1
60°-70°	235.0	7.2
70°-80°	146.8	4.5
80°-90°	62.1	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°	1146.5	35.3
0°-40°	1829.2	56.3
0°-60°	2804.3	86.3
0°-90°	3248.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1484	1480	1472	1482	1479	141
15°	1433	1428	1424	1433	1426	404
25°	1318	1314	1306	1312	1310	606
35°	1116	1109	1097	1086	1074	696
45°	815	818	792	675	632	629
55°	518	489	427	381	381	463
65°	286	239	207	222	229	289
75°	152	136	114	149	157	164
85°	60	56	52	66	74	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1482.3	1482.3	1482.3	1482.3	1482.3
2.5°	1487.5	1483.8	1475.5	1485.3	1483.8
5°	1483.8	1480.0	1472.5	1481.5	1479.3
7.5°	1476.3	1472.5	1465.7	1474.7	1470.9
10°	1466.5	1461.9	1455.1	1464.9	1461.1
12.5°	1451.3	1446.9	1440.8	1450.6	1445.3
15°	1433.3	1428.0	1424.2	1433.3	1426.5
17.5°	1411.4	1406.9	1401.6	1410.7	1403.2
20°	1385.0	1381.2	1374.5	1379.8	1376.0
22.5°	1354.9	1349.6	1342.9	1348.9	1343.6
25°	1318.0	1314.3	1305.9	1311.9	1309.7
27.5°	1275.8	1273.5	1263.8	1271.3	1267.5
30°	1230.6	1224.6	1217.0	1219.3	1220.0
32.5°	1178.5	1171.1	1165.0	1159.7	1154.5
35°	1116.0	1109.2	1097.2	1085.9	1073.8
37.5°	1051.3	1042.1	1030.1	1005.3	990.2
40°	975.8	971.4	951.8	917.1	873.4
42.5°	899.0	894.5	877.1	799.5	752.1
45°	815.4	817.6	792.0	675.2	632.3
47.5°	735.5	741.5	685.8	576.5	553.8
50°	655.6	662.4	582.5	498.1	484.5
52.5°	585.5	580.2	496.6	437.1	431.0
55°	517.7	489.1	427.2	381.3	381.3
57.5°	448.4	407.6	363.2	333.9	333.9
60°	389.6	339.1	308.2	288.6	294.6
62.5°	335.3	281.8	255.4	251.7	259.2
65°	286.4	238.9	207.3	221.5	229.1
67.5°	246.4	204.2	170.3	200.5	204.9
70°	209.5	177.8	144.0	184.6	185.4
72.5°	175.6	156.8	123.6	167.3	170.3
75°	152.2	136.4	113.8	149.2	156.8
77.5°	133.4	116.8	104.7	128.8	143.2
80°	113.8	95.7	97.2	108.5	122.8
82.5°	87.4	73.9	76.9	88.9	100.2
85°	60.3	55.7	52.0	65.5	73.9
87.5°	32.4	30.1	26.4	36.9	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)