

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: P476298

Luminaire Tested: **14GR-LD5-32-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476298  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-32-A-UNV-L840-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3214.4 lumens  
Efficiency: N/A  
Efficacy: 128.6 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

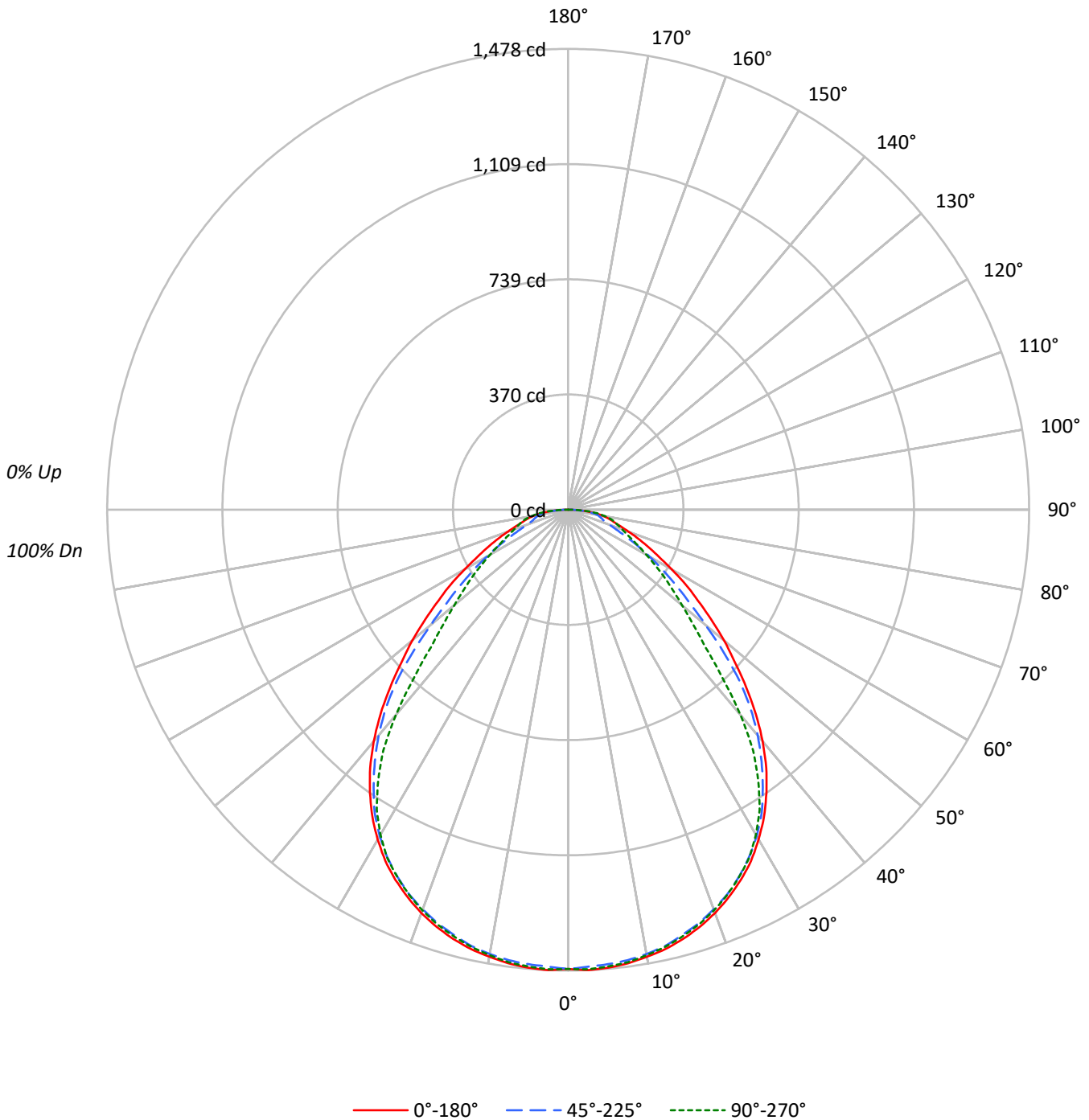
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33				33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30				30

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

	0°	45°	90°
0°	4963	4963	4963
5°	4987	4950	4975
10°	4981	4951	4963
15°	4972	4927	4943
20°	4936	4891	4904
25°	4871	4824	4827
30°	4752	4702	4683
35°	4557	4475	4373
40°	4266	4158	3783
45°	3853	3707	2957
50°	3417	3010	2501
55°	2982	2469	2206
60°	2586	2032	1948
65°	2268	1630	1798
70°	2023	1383	1810
75°	1974	1459	2022
80°	2187	1840	2317
85°	2277	1964	2714



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.8	4.3
10°-20°	400.4	12.5
20°-30°	598.9	18.6
30°-40°	676.1	21.0
40°-50°	573.5	17.8
50°-60°	388.1	12.1
60°-70°	231.6	7.2
70°-80°	145.1	4.5
80°-90°	61.0	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°	1139.0	35.4
0°-40°	1815.1	56.5
0°-60°	2776.7	86.4
0°-90°	3214.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3214.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1474	1470	1463	1474	1471	140
15°	1425	1422	1412	1422	1417	402
25°	1310	1306	1298	1304	1298	602
35°	1108	1100	1088	1078	1063	690
45°	808	812	778	667	620	623
55°	508	484	420	376	376	457
65°	284	236	204	218	226	284
75°	152	135	112	148	155	163
85°	59	56	51	66	70	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1473.0	1473.0	1473.0	1473.0	1473.0
2.5°	1478.2	1473.7	1466.9	1476.0	1475.2
5°	1474.4	1470.1	1463.3	1473.7	1470.7
7.5°	1467.7	1463.9	1457.4	1466.9	1463.9
10°	1455.8	1452.8	1446.9	1455.0	1450.6
12.5°	1443.1	1440.9	1433.4	1440.9	1436.4
15°	1425.2	1422.3	1412.5	1422.3	1416.9
17.5°	1402.8	1399.1	1390.9	1399.1	1394.5
20°	1376.6	1372.3	1364.0	1372.3	1367.7
22.5°	1345.3	1341.5	1334.2	1341.5	1335.6
25°	1310.2	1305.8	1297.5	1303.5	1298.3
27.5°	1269.9	1264.0	1256.4	1261.0	1258.0
30°	1221.3	1214.0	1208.6	1208.6	1203.5
32.5°	1168.4	1163.2	1154.3	1148.9	1142.2
35°	1107.9	1100.5	1087.8	1078.1	1063.0
37.5°	1043.0	1034.1	1018.4	993.6	973.6
40°	969.8	958.5	945.2	896.6	860.1
42.5°	891.4	889.1	866.0	783.1	732.4
45°	808.5	811.5	778.0	666.7	620.5
47.5°	724.8	735.3	674.2	565.1	541.3
50°	651.8	655.4	574.1	490.5	477.1
52.5°	576.4	570.3	489.8	431.5	421.7
55°	507.6	483.8	420.3	376.3	375.5
57.5°	447.1	403.1	359.1	326.3	330.1
60°	383.7	334.4	301.5	283.7	289.0
62.5°	327.7	280.7	251.5	246.4	255.3
65°	284.5	235.9	204.5	218.0	225.5
67.5°	243.4	202.3	166.4	198.6	201.5
70°	205.3	175.4	140.4	182.9	183.7
72.5°	174.0	155.3	121.6	165.8	168.0
75°	151.6	135.1	112.1	147.8	155.3
77.5°	132.9	115.7	103.8	127.7	140.4
80°	112.7	93.2	94.8	106.7	119.4
82.5°	86.7	72.4	75.4	88.1	97.0
85°	58.9	55.9	50.8	65.7	70.2
87.5°	31.3	29.9	26.2	37.3	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)