

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: P476333

Luminaire Tested: **14GR-LD5-28-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476333  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-28-A125-UNV-L840-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2888.2 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

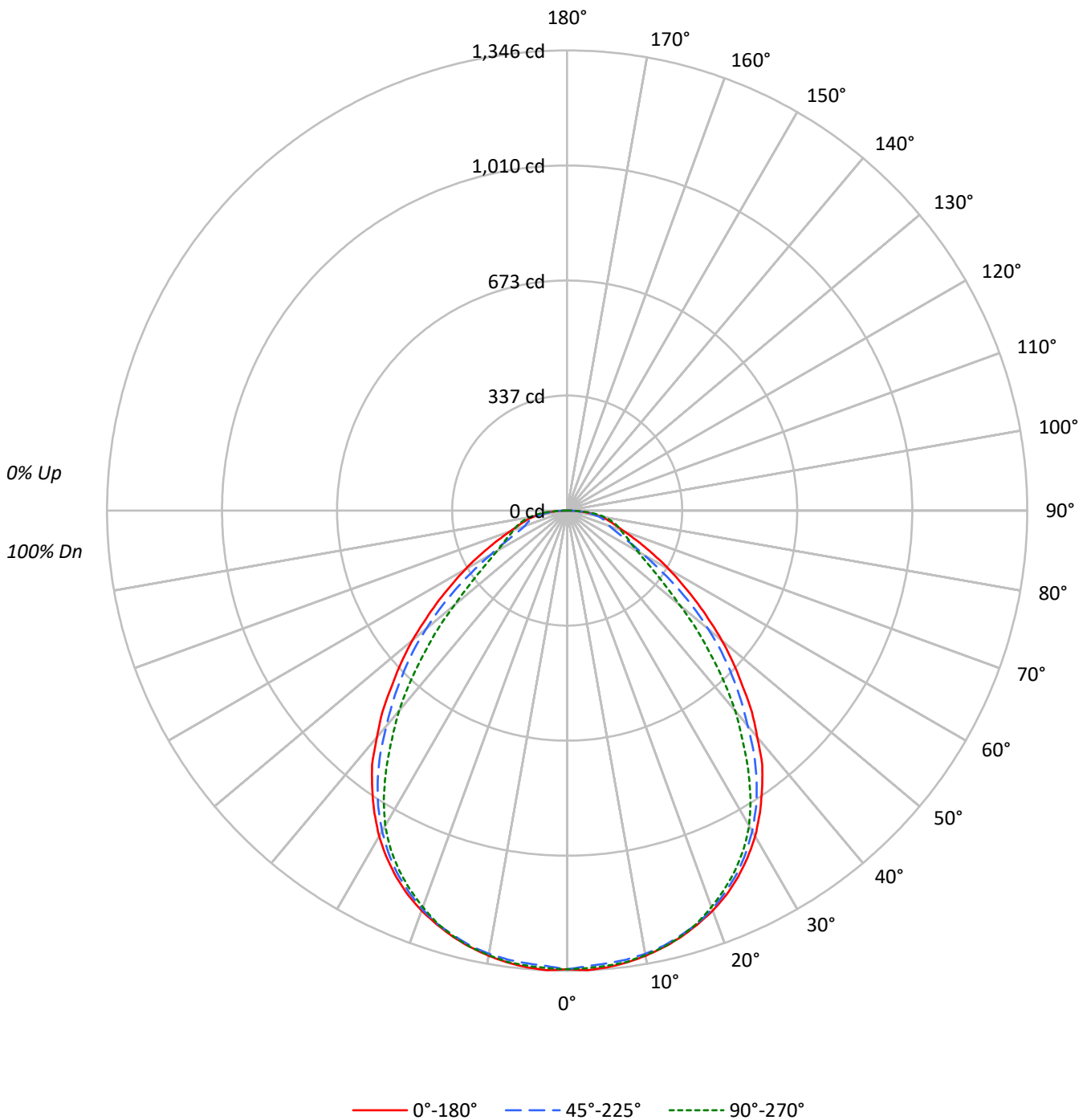
Input Watts (W): 23.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	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	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

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

	0°	45°	90°
0°	3610	3610	3610
5°	3622	3592	3610
10°	3613	3597	3607
15°	3596	3583	3590
20°	3566	3552	3535
25°	3511	3483	3450
30°	3418	3364	3308
35°	3265	3175	3032
40°	3039	2886	2688
45°	2761	2595	2253
50°	2472	2254	1796
55°	2148	1839	1458
60°	1853	1391	1272
65°	1585	1111	1248
70°	1400	1035	1310
75°	1395	1186	1493
80°	1508	1384	1715
85°	1618	1473	1970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.0	4.4
10°-20°	363.5	12.6
20°-30°	539.4	18.7
30°-40°	599.0	20.7
40°-50°	516.6	17.9
50°-60°	350.3	12.1
60°-70°	202.6	7.0
70°-80°	132.2	4.6
80°-90°	57.7	2.0
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°	1029.9	35.7
0°-40°	1628.9	56.4
0°-60°	2495.8	86.4
0°-90°	2888.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2888.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1341	1336	1330	1339	1336	127
15°	1291	1288	1286	1295	1289	364
25°	1183	1181	1173	1170	1162	544
35°	994	985	966	940	923	620
45°	726	714	682	626	592	561
55°	458	448	392	334	311	411
65°	249	221	174	178	196	250
75°	134	122	114	128	144	143
85°	52	51	48	66	64	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1341.7	1341.7	1341.7	1341.7	1341.7
2.5°	1345.7	1341.0	1333.7	1341.7	1339.7
5°	1341.0	1335.7	1329.6	1339.0	1336.3
7.5°	1333.7	1328.3	1324.9	1333.0	1331.6
10°	1322.3	1318.2	1316.2	1326.3	1320.2
12.5°	1308.2	1304.8	1304.1	1312.2	1307.5
15°	1290.7	1288.0	1286.0	1294.7	1288.7
17.5°	1269.2	1267.9	1266.5	1270.6	1265.2
20°	1245.1	1243.7	1240.4	1241.0	1234.3
22.5°	1216.9	1215.5	1208.8	1207.5	1200.1
25°	1182.6	1181.3	1173.2	1169.9	1161.8
27.5°	1143.7	1144.4	1131.0	1124.9	1117.5
30°	1100.1	1097.4	1082.6	1072.6	1064.5
32.5°	1049.1	1045.7	1028.3	1012.2	998.1
35°	994.0	984.6	966.5	939.7	922.9
37.5°	937.7	924.9	898.1	863.8	841.7
40°	865.2	851.7	821.5	782.6	765.2
42.5°	800.1	786.0	752.4	706.8	679.2
45°	725.6	714.1	681.9	625.6	592.0
47.5°	657.8	645.7	612.8	546.4	513.5
50°	590.6	577.2	538.3	466.5	428.9
52.5°	520.8	513.5	465.8	394.0	363.8
55°	457.8	448.4	392.0	333.6	310.8
57.5°	397.3	381.9	320.8	277.2	268.5
60°	344.3	322.8	258.4	234.2	236.3
62.5°	294.0	268.5	212.1	200.7	212.1
65°	249.0	220.8	174.5	178.5	196.0
67.5°	209.4	182.6	148.3	164.4	179.2
70°	177.9	155.7	131.6	149.7	166.5
72.5°	152.4	137.6	123.5	137.6	155.7
75°	134.2	121.5	114.1	127.5	143.6
77.5°	117.5	107.4	104.0	114.8	128.2
80°	97.3	92.6	89.3	103.4	110.7
82.5°	75.2	73.2	70.5	87.9	91.3
85°	52.4	51.0	47.7	66.4	63.8
87.5°	27.5	26.2	24.2	34.9	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)