

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: P225868

Luminaire Tested: **14GR-LD5-32-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225868
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-LD5-32-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: 2881.8 lumens
Efficiency: N/A
Efficacy: 96.4 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

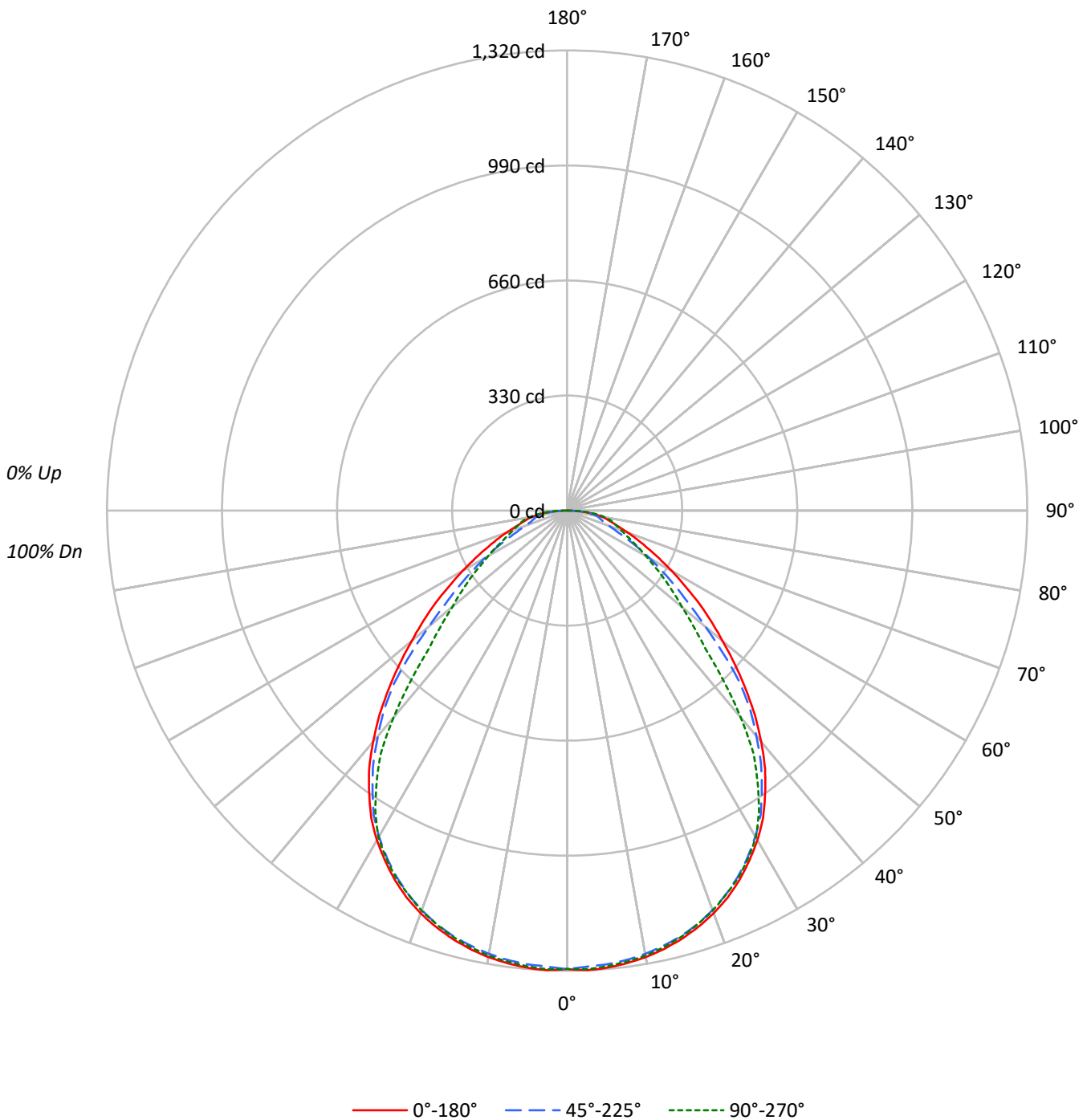
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4431	4431	4431
5°	4453	4419	4439
10°	4451	4417	4436
15°	4436	4408	4415
20°	4407	4373	4378
25°	4347	4308	4320
30°	4248	4201	4211
35°	4073	4004	3919
40°	3808	3714	3409
45°	3447	3349	2673
50°	3049	2709	2254
55°	2698	2227	1987
60°	2329	1843	1762
65°	2025	1466	1620
70°	1830	1258	1620
75°	1758	1315	1811
80°	1960	1675	2115
85°	2068	1782	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	4.3
10°-20°	357.5	12.4
20°-30°	535.0	18.6
30°-40°	605.6	21.0
40°-50°	515.9	17.9
50°-60°	349.3	12.1
60°-70°	208.5	7.2
70°-80°	130.3	4.5
80°-90°	55.1	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°	1017.2	35.3
0°-40°	1622.8	56.3
0°-60°	2488.0	86.3
0°-90°	2881.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1316	1313	1306	1314	1312	125
15°	1272	1267	1264	1272	1266	359
25°	1169	1166	1159	1164	1162	538
35°	990	984	973	963	953	617
45°	723	725	703	599	561	558
55°	459	434	379	338	338	411
65°	254	212	184	197	203	256
75°	135	121	101	132	139	146
85°	54	49	46	58	66	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.1	1315.1	1315.1	1315.1	1315.1
2.5°	1319.8	1316.4	1309.1	1317.8	1316.4
5°	1316.4	1313.0	1306.4	1314.4	1312.4
7.5°	1309.7	1306.4	1300.4	1308.4	1305.0
10°	1301.0	1297.1	1291.0	1299.7	1296.4
12.5°	1287.7	1283.6	1278.3	1287.0	1282.3
15°	1271.6	1267.0	1263.6	1271.6	1265.6
17.5°	1252.2	1248.2	1243.6	1251.6	1244.8
20°	1228.9	1225.5	1219.5	1224.1	1220.9
22.5°	1202.1	1197.4	1191.4	1196.8	1192.0
25°	1169.3	1166.0	1158.7	1164.0	1161.9
27.5°	1131.9	1129.9	1121.2	1127.9	1124.5
30°	1091.8	1086.4	1079.7	1081.8	1082.4
32.5°	1045.7	1039.0	1033.6	1028.9	1024.3
35°	990.1	984.1	973.4	963.4	952.7
37.5°	932.7	924.7	913.9	891.9	878.5
40°	865.8	861.8	844.4	813.6	774.9
42.5°	797.6	793.6	778.2	709.3	667.3
45°	723.4	725.4	702.7	599.1	560.9
47.5°	652.6	657.9	608.4	511.4	491.4
50°	581.6	587.6	516.8	442.0	429.9
52.5°	519.4	514.8	440.6	387.8	382.4
55°	459.3	433.9	379.1	338.3	338.3
57.5°	397.8	361.7	322.2	296.2	296.2
60°	345.6	300.8	273.5	256.0	261.4
62.5°	297.5	250.1	226.6	223.3	230.0
65°	254.0	211.9	183.9	196.6	203.2
67.5°	218.6	181.2	151.1	177.8	181.9
70°	185.8	157.8	127.7	163.8	164.4
72.5°	155.7	139.1	109.6	148.4	151.1
75°	135.0	121.0	101.0	132.4	139.1
77.5°	118.3	103.6	93.0	114.3	127.0
80°	101.0	84.9	86.3	96.2	109.0
82.5°	77.6	65.5	68.2	78.9	88.9
85°	53.5	49.4	46.1	58.1	65.5
87.5°	28.7	26.7	23.4	32.8	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)