

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: P225861

Luminaire Tested: **14GR-LD5-32-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225861
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-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: 2800.8 lumens
Efficiency: N/A
Efficacy: 93.7 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

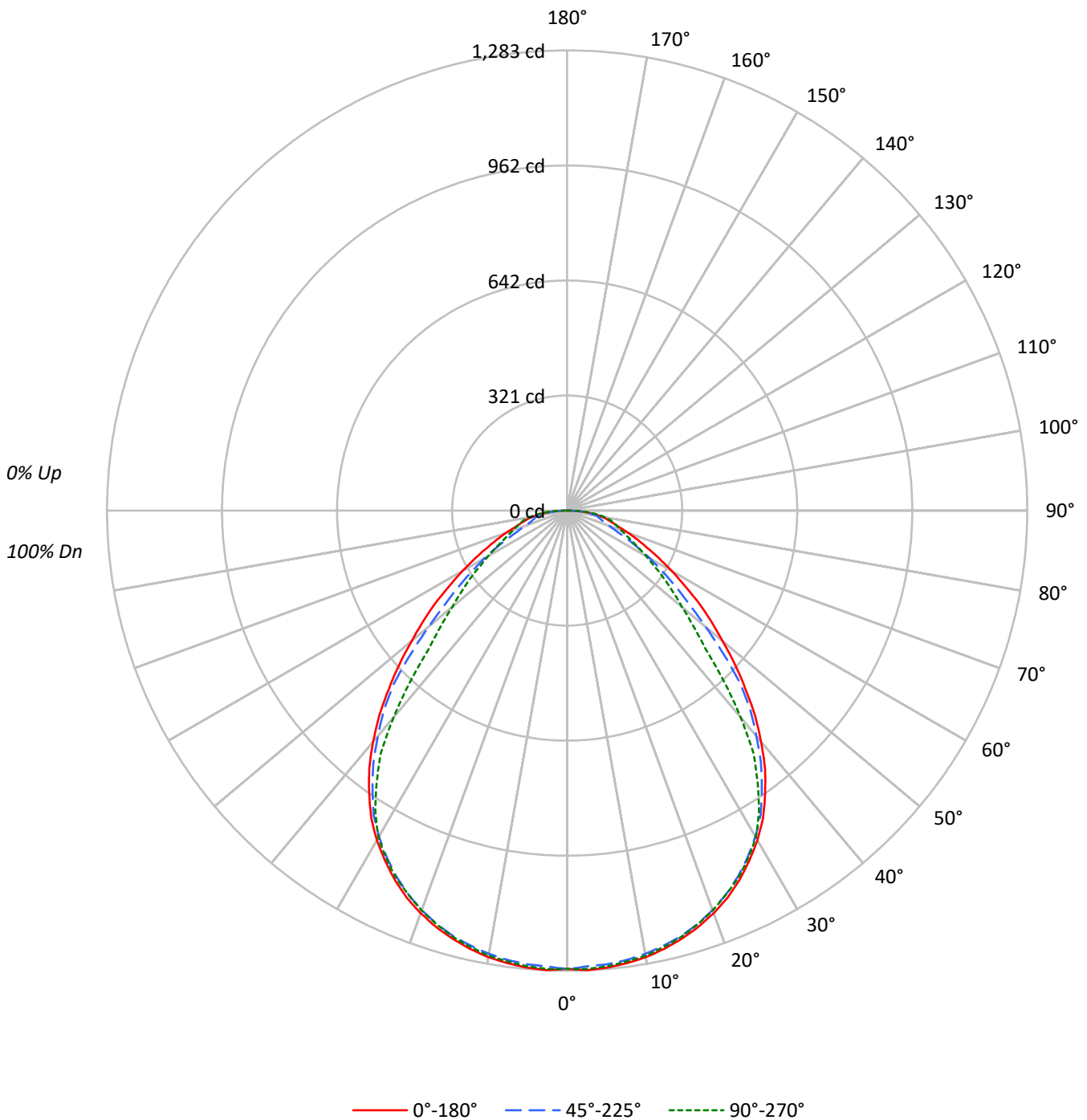
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	51	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°	4307	4307	4307
5°	4327	4294	4314
10°	4327	4293	4311
15°	4311	4284	4291
20°	4282	4250	4254
25°	4225	4186	4199
30°	4129	4083	4093
35°	3958	3891	3809
40°	3701	3610	3313
45°	3350	3254	2598
50°	2963	2633	2190
55°	2622	2164	1932
60°	2264	1791	1712
65°	1969	1425	1575
70°	1779	1223	1574
75°	1708	1277	1760
80°	1904	1626	2055
85°	2010	1732	2463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	4.3
10°-20°	347.4	12.4
20°-30°	519.9	18.6
30°-40°	588.6	21.0
40°-50°	501.3	17.9
50°-60°	339.4	12.1
60°-70°	202.7	7.2
70°-80°	126.6	4.5
80°-90°	53.5	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°	988.6	35.3
0°-40°	1577.2	56.3
0°-60°	2418.0	86.3
0°-90°	2800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1279	1276	1270	1277	1276	122
15°	1236	1231	1228	1236	1230	349
25°	1136	1133	1126	1131	1129	523
35°	962	956	946	936	926	600
45°	703	705	683	582	545	542
55°	446	422	368	329	329	399
65°	247	206	179	191	198	249
75°	131	118	98	129	135	142
85°	52	48	45	56	64	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.1	1278.1	1278.1	1278.1	1278.1
2.5°	1282.6	1279.3	1272.2	1280.7	1279.3
5°	1279.3	1276.1	1269.6	1277.4	1275.5
7.5°	1272.9	1269.6	1263.8	1271.6	1268.3
10°	1264.5	1260.6	1254.7	1263.1	1259.9
12.5°	1251.5	1247.5	1242.4	1250.8	1246.3
15°	1235.8	1231.3	1228.1	1235.8	1230.0
17.5°	1217.0	1213.1	1208.5	1216.4	1209.8
20°	1194.2	1191.0	1185.2	1189.7	1186.4
22.5°	1168.2	1163.7	1157.9	1163.1	1158.6
25°	1136.4	1133.1	1126.0	1131.3	1129.3
27.5°	1100.1	1098.1	1089.6	1096.2	1092.9
30°	1061.1	1055.9	1049.3	1051.3	1052.0
32.5°	1016.3	1009.7	1004.5	999.9	995.4
35°	962.3	956.4	946.0	936.3	925.9
37.5°	906.4	898.6	888.2	866.7	853.7
40°	841.4	837.5	820.7	790.8	753.1
42.5°	775.2	771.3	756.3	689.4	648.5
45°	703.0	705.0	682.9	582.2	545.1
47.5°	634.2	639.4	591.3	497.1	477.5
50°	565.2	571.1	502.3	429.5	417.8
52.5°	504.9	500.3	428.2	376.9	371.6
55°	446.4	421.7	368.4	328.8	328.8
57.5°	386.6	351.6	313.1	287.8	287.8
60°	335.9	292.4	265.7	248.9	254.1
62.5°	289.2	243.0	220.2	217.0	223.6
65°	246.9	206.0	178.7	191.0	197.5
67.5°	212.5	176.1	146.9	172.8	176.7
70°	180.6	153.3	124.1	159.2	159.8
72.5°	151.4	135.2	106.6	144.2	146.9
75°	131.2	117.6	98.1	128.7	135.2
77.5°	115.0	100.7	90.4	111.1	123.4
80°	98.1	82.5	83.8	93.6	105.9
82.5°	75.4	63.7	66.3	76.7	86.4
85°	52.0	48.1	44.8	56.5	63.7
87.5°	28.0	26.0	22.8	31.9	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)