

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: P225727

Luminaire Tested: **22GR-LD5-24-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A125-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2139.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

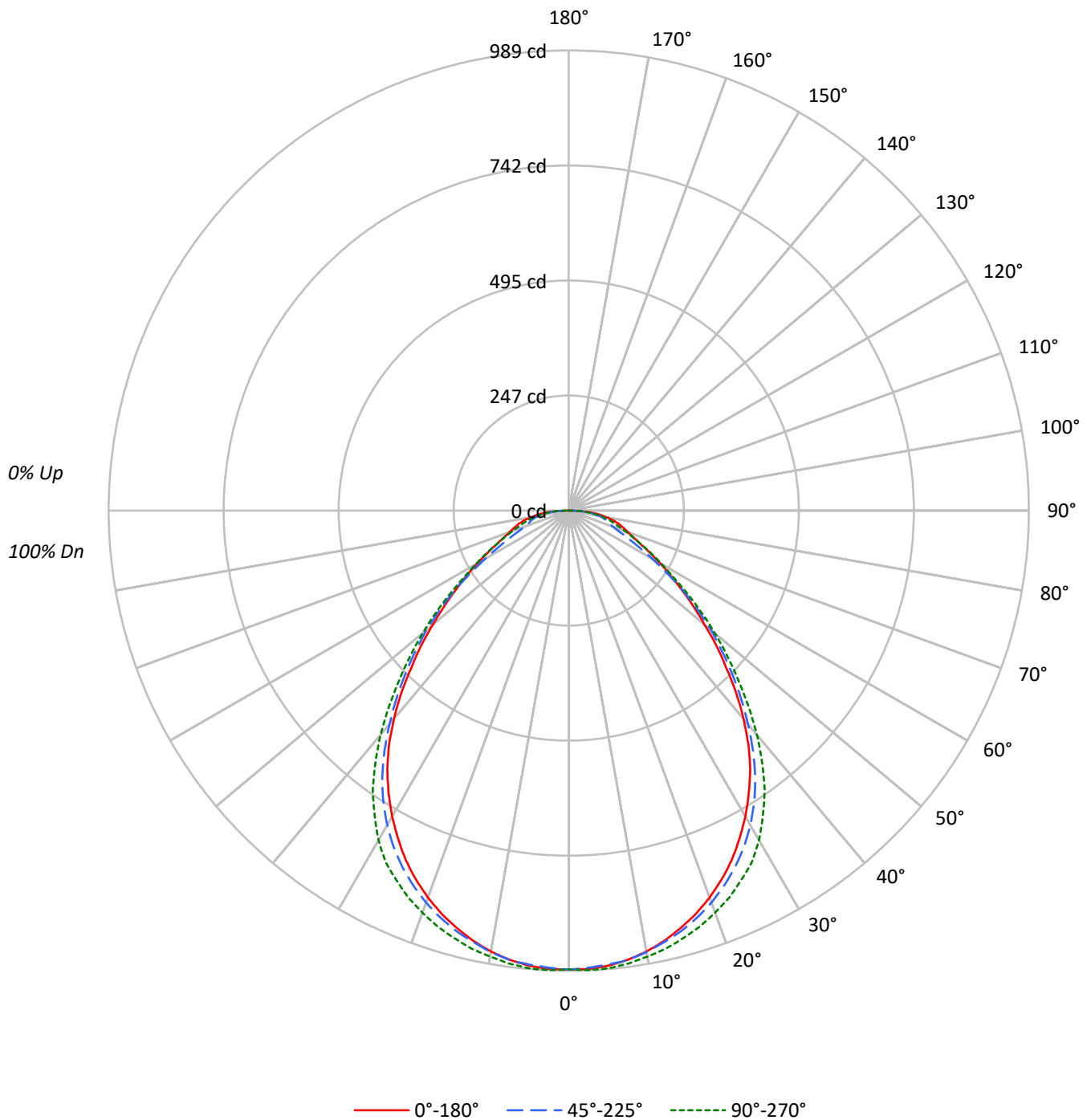
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	102	98	107	103	100	96		99	96	93			95	93	91			92
2	101	94	87	82	98	92	86	81		88	83	79			85	81	78			82
3	93	83	76	70	91	82	75	69		79	73	68			76	71	67			74
4	86	75	67	61	84	74	66	60		71	65	59			69	63	59			67
5	80	68	59	53	78	67	59	53		65	58	52			63	57	52			61
6	74	61	53	47	72	61	53	47		59	52	47			57	51	46			56
7	69	56	48	42	67	55	48	42		54	47	42			52	46	41			51
8	64	52	44	38	63	51	43	38		50	43	38			48	42	38			47
9	60	48	40	35	59	47	40	34		46	39	34			45	39	34			44
10	57	44	37	32	55	44	36	32		43	36	31			42	36	31			41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3158	3158	3158
5°	3156	3148	3174
10°	3129	3133	3165
15°	3080	3101	3154
20°	3016	3055	3133
25°	2928	2988	3097
30°	2806	2885	3024
35°	2658	2732	2871
40°	2444	2505	2630
45°	2171	2250	2332
50°	1896	1983	2043
55°	1649	1672	1733
60°	1451	1329	1480
65°	1289	1062	1297
70°	1266	944	1196
75°	1382	1037	1222
80°	1518	1232	1308
85°	1815	1429	1466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	4.4
10°-20°	264.3	12.4
20°-30°	390.2	18.2
30°-40°	436.7	20.4
40°-50°	383.5	17.9
50°-60°	271.3	12.7
60°-70°	157.9	7.4
70°-80°	98.4	4.6
80°-90°	44.0	2.1
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°	747.8	34.9
0°-40°	1184.5	55.4
0°-60°	1839.3	86.0
0°-90°	2139.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	982	979	979	984	987	93
15°	929	931	935	945	951	262
25°	829	832	846	866	876	381
35°	680	683	699	720	734	423
45°	479	485	497	509	515	371
55°	295	301	299	305	310	267
65°	170	157	140	153	171	173
75°	112	96	84	86	99	117
85°	49	51	39	38	40	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.2	986.2	986.2	986.2	986.2
2.5°	986.2	984.3	983.3	986.8	988.7
5°	981.8	979.3	979.3	984.3	987.3
7.5°	973.8	971.3	974.3	978.8	981.8
10°	962.3	961.3	963.4	969.3	973.3
12.5°	947.4	947.9	949.9	959.3	964.3
15°	928.9	931.0	935.4	945.4	951.3
17.5°	908.9	910.5	917.4	928.9	937.4
20°	885.0	888.0	896.5	911.0	919.4
22.5°	858.5	862.1	872.6	890.0	900.5
25°	828.6	832.1	845.6	865.6	876.5
27.5°	794.7	800.2	815.2	837.1	852.1
30°	758.8	763.2	780.3	805.2	817.7
32.5°	720.4	725.8	741.8	765.7	776.8
35°	680.0	682.9	698.9	719.9	734.4
37.5°	634.1	635.5	650.5	670.0	682.9
40°	584.7	585.7	599.2	617.7	629.1
42.5°	533.3	533.8	548.2	562.3	572.2
45°	479.4	485.0	496.9	508.9	514.9
47.5°	431.0	435.0	446.0	456.5	462.0
50°	380.6	390.6	398.1	403.6	410.0
52.5°	337.2	345.7	347.7	354.2	359.7
55°	295.3	301.3	299.4	304.8	310.3
57.5°	259.9	256.9	250.4	259.9	266.9
60°	226.5	218.5	207.5	220.5	231.0
62.5°	196.6	183.6	170.1	183.1	200.6
65°	170.1	156.6	140.2	152.6	171.1
67.5°	150.2	136.2	116.7	129.2	147.7
70°	135.2	120.7	100.8	111.3	127.7
72.5°	123.2	107.8	90.3	97.3	111.3
75°	111.7	96.3	83.8	85.8	98.8
77.5°	98.3	86.8	76.8	75.9	85.8
80°	82.3	78.9	66.8	65.4	70.9
82.5°	67.9	66.4	54.9	53.4	55.4
85°	49.4	51.3	38.9	37.9	39.9
87.5°	26.0	28.5	20.5	21.4	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)