

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: P213498

Luminaire Tested: **14GR-LD5-40-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213498
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-LD5-40-A125-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3478.2 lumens
Efficiency: N/A
Efficacy: 89.6 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

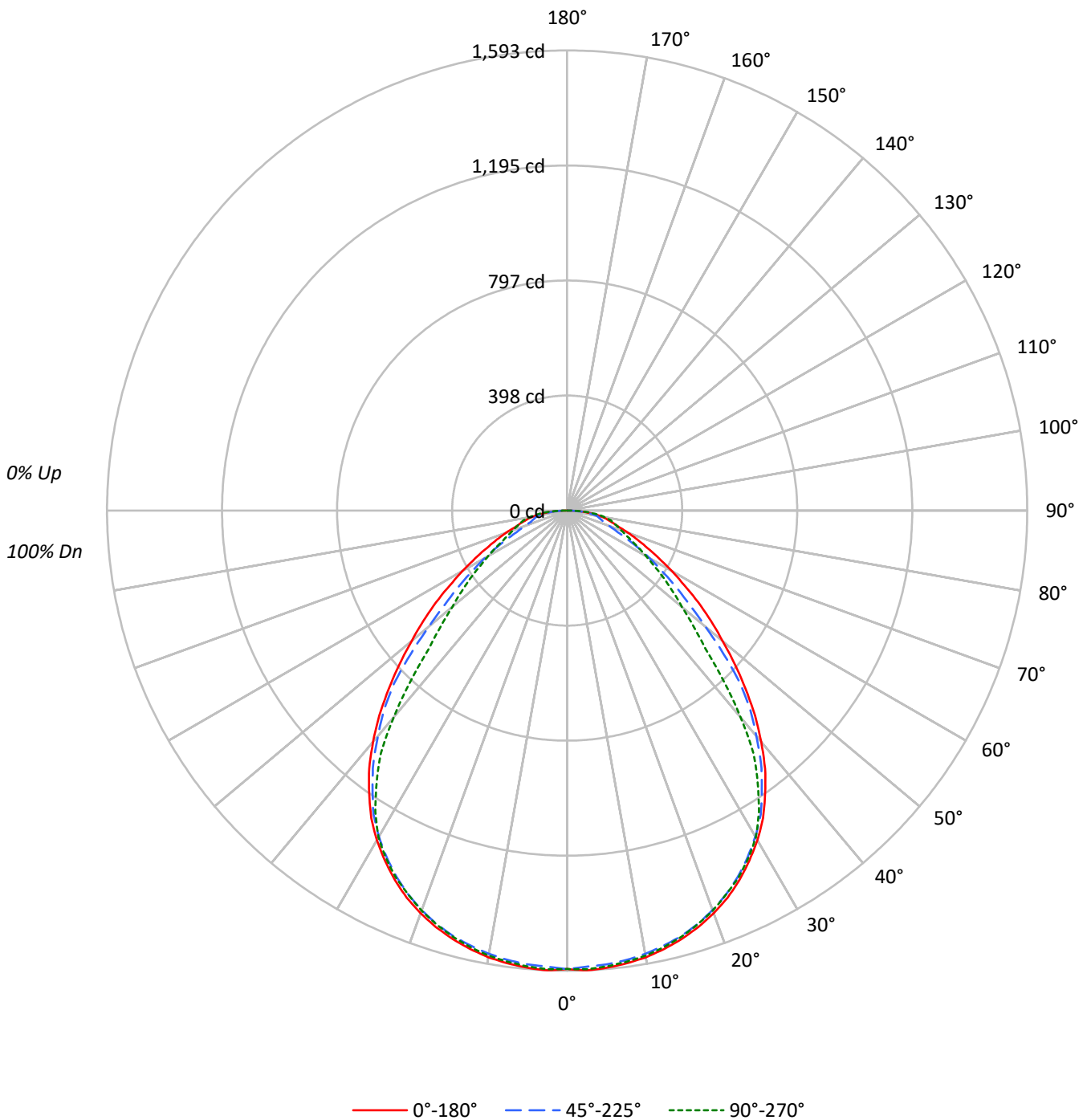
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5348	5348	5348
5°	5374	5333	5358
10°	5373	5331	5353
15°	5354	5320	5329
20°	5318	5278	5284
25°	5247	5199	5214
30°	5127	5070	5083
35°	4916	4833	4730
40°	4597	4483	4114
45°	4161	4041	3226
50°	3680	3270	2720
55°	3257	2688	2399
60°	2812	2225	2126
65°	2445	1769	1956
70°	2210	1518	1956
75°	2122	1586	2186
80°	2363	2020	2552
85°	2494	2153	3054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	4.3
10°-20°	431.5	12.4
20°-30°	645.7	18.6
30°-40°	730.9	21.0
40°-50°	622.6	17.9
50°-60°	421.6	12.1
60°-70°	251.7	7.2
70°-80°	157.2	4.5
80°-90°	66.5	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°	1227.7	35.3
0°-40°	1958.7	56.3
0°-60°	3002.8	86.3
0°-90°	3478.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1589	1585	1577	1586	1584	151
15°	1535	1529	1525	1535	1528	433
25°	1411	1407	1398	1405	1402	649
35°	1195	1188	1175	1163	1150	745
45°	873	876	848	723	677	673
55°	554	524	458	408	408	496
65°	307	256	222	237	245	309
75°	163	146	122	160	168	176
85°	64	60	56	70	79	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.2	1587.2	1587.2	1587.2	1587.2
2.5°	1592.9	1588.8	1580.0	1590.4	1588.8
5°	1588.8	1584.8	1576.8	1586.4	1584.0
7.5°	1580.7	1576.8	1569.4	1579.1	1575.1
10°	1570.3	1565.4	1558.1	1568.7	1564.6
12.5°	1554.1	1549.3	1542.8	1553.3	1547.7
15°	1534.8	1529.1	1525.1	1534.8	1527.5
17.5°	1511.4	1506.5	1500.8	1510.5	1502.5
20°	1483.1	1479.1	1471.9	1477.5	1473.5
22.5°	1450.9	1445.2	1437.9	1444.4	1438.7
25°	1411.3	1407.3	1398.4	1404.9	1402.4
27.5°	1366.1	1363.7	1353.2	1361.3	1357.3
30°	1317.7	1311.2	1303.1	1305.6	1306.4
32.5°	1262.0	1253.9	1247.5	1241.8	1236.2
35°	1195.0	1187.8	1174.9	1162.8	1149.9
37.5°	1125.7	1116.0	1103.0	1076.4	1060.3
40°	1045.0	1040.1	1019.2	982.0	935.3
42.5°	962.6	957.8	939.2	856.1	805.3
45°	873.1	875.5	848.0	723.0	677.0
47.5°	787.5	794.0	734.3	617.3	593.0
50°	702.0	709.3	623.7	533.4	518.8
52.5°	627.0	621.4	531.8	468.0	461.6
55°	554.4	523.7	457.6	408.3	408.3
57.5°	480.1	436.6	389.0	357.4	357.4
60°	417.2	363.1	330.1	309.1	315.5
62.5°	359.0	301.8	273.5	269.5	277.6
65°	306.6	255.8	221.9	237.2	245.3
67.5°	263.8	218.7	182.3	214.6	219.5
70°	224.3	190.4	154.1	197.7	198.5
72.5°	188.0	167.9	132.3	179.1	182.3
75°	163.0	146.0	121.8	159.8	167.9
77.5°	142.8	125.0	112.2	138.0	153.3
80°	121.8	102.5	104.1	116.2	131.5
82.5°	93.6	79.0	82.3	95.2	107.4
85°	64.5	59.7	55.7	70.2	79.0
87.5°	34.7	32.3	28.2	39.5	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)