

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: P213519

Luminaire Tested: **14GR-LD5-40-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213519
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-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3519.1 lumens
Efficiency: N/A
Efficacy: 90.7 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

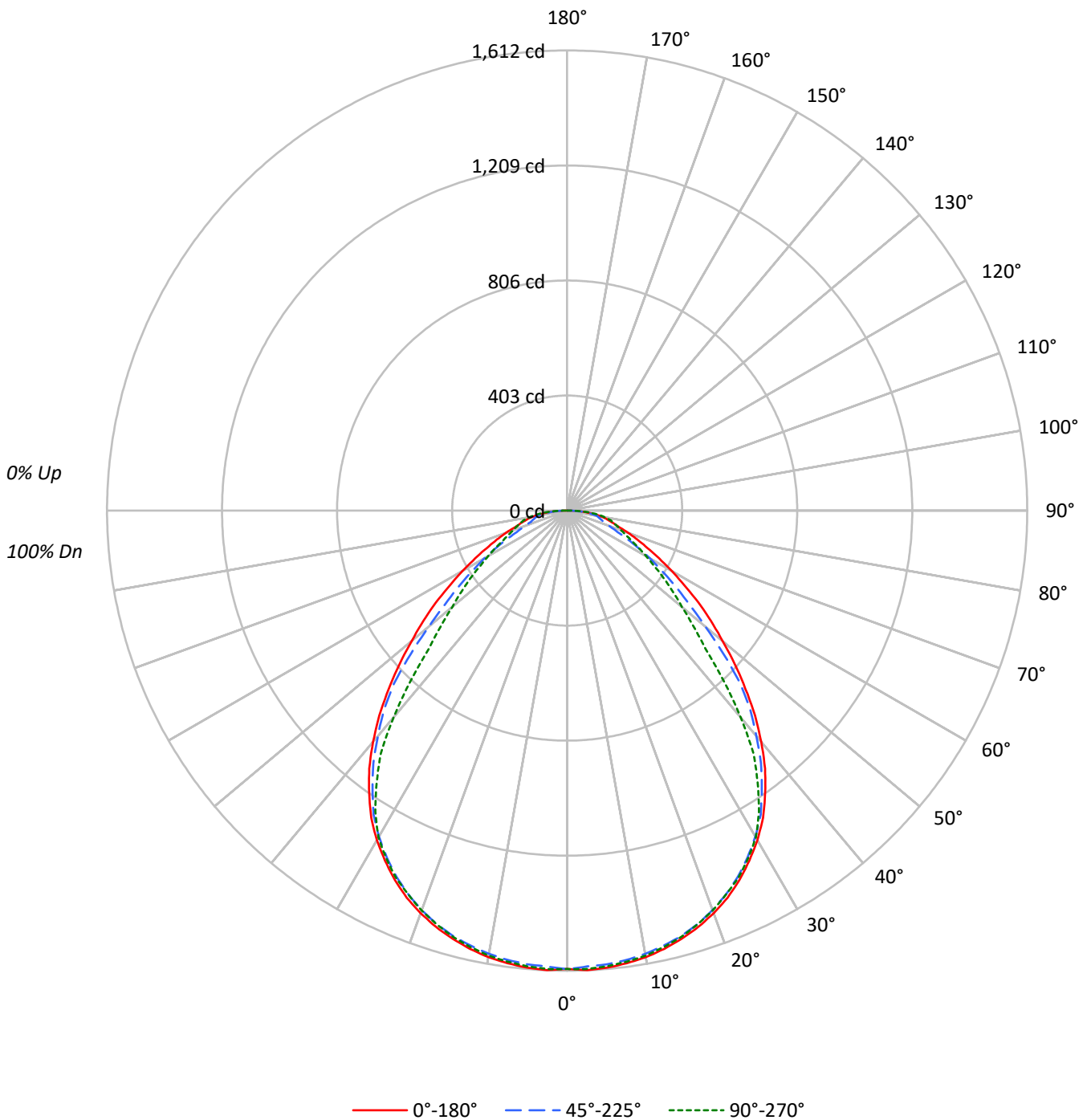
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	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	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5411	5411	5411
5°	5437	5396	5421
10°	5436	5394	5416
15°	5417	5383	5391
20°	5381	5340	5346
25°	5309	5260	5275
30°	5187	5130	5143
35°	4974	4890	4786
40°	4651	4535	4162
45°	4210	4089	3264
50°	3723	3308	2752
55°	3295	2719	2427
60°	2845	2250	2151
65°	2473	1790	1979
70°	2236	1536	1978
75°	2147	1604	2211
80°	2391	2045	2581
85°	2525	2177	3093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	4.3
10°-20°	436.5	12.4
20°-30°	653.3	18.6
30°-40°	739.5	21.0
40°-50°	629.9	17.9
50°-60°	426.5	12.1
60°-70°	254.6	7.2
70°-80°	159.1	4.5
80°-90°	67.2	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°	1242.2	35.3
0°-40°	1981.7	56.3
0°-60°	3038.1	86.3
0°-90°	3519.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1608	1604	1595	1605	1603	153
15°	1553	1547	1543	1553	1546	438
25°	1428	1424	1415	1421	1419	657
35°	1209	1202	1189	1176	1163	754
45°	883	886	858	732	685	681
55°	561	530	463	413	413	502
65°	310	259	224	240	248	313
75°	165	148	123	162	170	178
85°	65	60	56	71	80	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1611.6	1607.5	1598.6	1609.1	1607.5
5°	1607.5	1603.5	1595.3	1605.1	1602.6
7.5°	1599.3	1595.3	1587.9	1597.7	1593.7
10°	1588.8	1583.9	1576.5	1587.1	1583.0
12.5°	1572.4	1567.5	1561.0	1571.6	1565.9
15°	1552.8	1547.1	1543.0	1552.8	1545.5
17.5°	1529.2	1524.3	1518.5	1528.3	1520.1
20°	1500.5	1496.5	1489.2	1494.9	1490.8
22.5°	1467.9	1462.2	1454.9	1461.4	1455.6
25°	1427.9	1423.8	1414.9	1421.4	1418.9
27.5°	1382.2	1379.7	1369.1	1377.3	1373.2
30°	1333.2	1326.6	1318.5	1321.0	1321.7
32.5°	1276.8	1268.7	1262.1	1256.5	1250.8
35°	1209.1	1201.8	1188.7	1176.5	1163.4
37.5°	1138.9	1129.1	1116.0	1089.1	1072.8
40°	1057.3	1052.4	1031.1	993.6	946.3
42.5°	974.0	969.0	950.3	866.2	814.8
45°	883.4	885.8	858.0	731.5	685.0
47.5°	796.8	803.3	743.0	624.5	600.0
50°	710.3	717.7	631.1	539.6	524.9
52.5°	634.3	628.7	538.0	473.5	467.0
55°	560.9	529.8	462.9	413.1	413.1
57.5°	485.7	441.7	393.5	361.6	361.6
60°	422.1	367.4	333.9	312.7	319.2
62.5°	363.3	305.3	276.7	272.7	280.9
65°	310.2	258.8	224.5	240.0	248.2
67.5°	266.9	221.3	184.5	217.2	222.1
70°	227.0	192.6	155.9	200.0	200.8
72.5°	190.2	169.8	133.9	181.2	184.5
75°	164.9	147.7	123.2	161.7	169.8
77.5°	144.5	126.5	113.5	139.6	155.1
80°	123.2	103.7	105.4	117.6	133.0
82.5°	94.7	80.0	83.2	96.3	108.6
85°	65.3	60.4	56.3	71.0	80.0
87.5°	35.1	32.7	28.6	40.0	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)