

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: P213477

Luminaire Tested: **14GR-LD5-40-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213477
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-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3266.9 lumens
Efficiency: N/A
Efficacy: 84.2 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

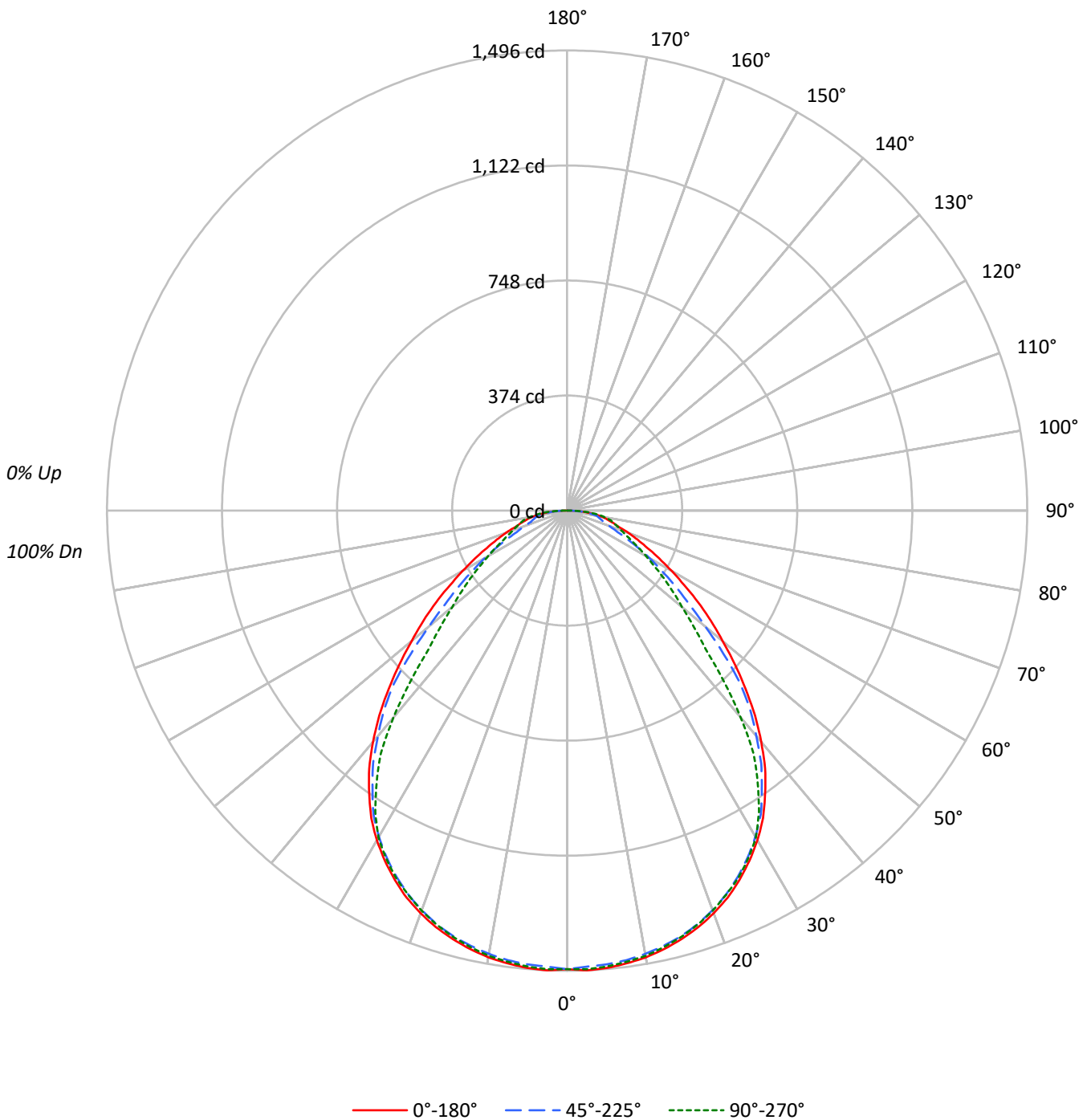
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5023	5023	5023
5°	5048	5009	5032
10°	5046	5007	5028
15°	5029	4997	5005
20°	4995	4957	4962
25°	4928	4883	4897
30°	4815	4762	4774
35°	4617	4539	4443
40°	4317	4210	3864
45°	3908	3796	3030
50°	3457	3071	2554
55°	3059	2524	2253
60°	2640	2089	1997
65°	2296	1662	1837
70°	2076	1427	1836
75°	1993	1491	2052
80°	2222	1898	2396
85°	2347	2022	2873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	4.3
10°-20°	405.2	12.4
20°-30°	606.5	18.6
30°-40°	686.5	21.0
40°-50°	584.8	17.9
50°-60°	395.9	12.1
60°-70°	236.4	7.2
70°-80°	147.7	4.5
80°-90°	62.4	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°	1153.1	35.3
0°-40°	1839.7	56.3
0°-60°	2820.4	86.3
0°-90°	3266.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1492	1488	1481	1490	1488	142
15°	1442	1436	1432	1442	1435	407
25°	1326	1322	1313	1320	1317	610
35°	1122	1116	1104	1092	1080	700
45°	820	822	797	679	636	632
55°	521	492	430	384	384	466
65°	288	240	208	223	230	290
75°	153	137	114	150	158	165
85°	61	56	52	66	74	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1496.1	1492.3	1484.0	1493.8	1492.3
5°	1492.3	1488.5	1480.9	1490.0	1487.8
7.5°	1484.7	1480.9	1474.1	1483.2	1479.4
10°	1474.8	1470.3	1463.5	1473.3	1469.6
12.5°	1459.7	1455.2	1449.1	1459.0	1453.7
15°	1441.5	1436.2	1432.4	1441.5	1434.7
17.5°	1419.5	1415.0	1409.7	1418.8	1411.2
20°	1393.0	1389.3	1382.4	1387.7	1383.9
22.5°	1362.7	1357.4	1350.6	1356.6	1351.3
25°	1325.6	1321.8	1313.4	1319.5	1317.2
27.5°	1283.1	1280.9	1271.0	1278.5	1274.8
30°	1237.6	1231.6	1224.0	1226.2	1227.1
32.5°	1185.3	1177.8	1171.7	1166.4	1161.1
35°	1122.4	1115.6	1103.5	1092.1	1080.0
37.5°	1057.3	1048.2	1036.0	1011.0	995.8
40°	981.5	976.9	957.2	922.4	878.4
42.5°	904.2	899.6	882.2	804.1	756.4
45°	820.0	822.3	796.6	679.1	635.9
47.5°	739.7	745.8	689.6	579.8	557.0
50°	659.4	666.2	585.8	501.0	487.3
52.5°	588.9	583.6	499.5	439.6	433.5
55°	520.7	491.9	429.7	383.5	383.5
57.5°	450.9	410.0	365.3	335.7	335.7
60°	391.8	341.0	310.0	290.3	296.3
62.5°	337.2	283.4	257.0	253.2	260.7
65°	288.0	240.3	208.4	222.9	230.4
67.5°	247.8	205.4	171.3	201.6	206.2
70°	210.7	178.9	144.8	185.7	186.4
72.5°	176.6	157.6	124.3	168.2	171.3
75°	153.1	137.2	114.5	150.1	157.6
77.5°	134.1	117.4	105.3	129.6	144.0
80°	114.5	96.3	97.8	109.1	123.5
82.5°	87.9	74.3	77.3	89.4	100.8
85°	60.7	56.1	52.3	65.9	74.3
87.5°	32.6	30.3	26.6	37.1	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)