

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: P225930

Luminaire Tested: **14GR-LD5-32-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3046.6 lumens
Efficiency: N/A
Efficacy: 101.9 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

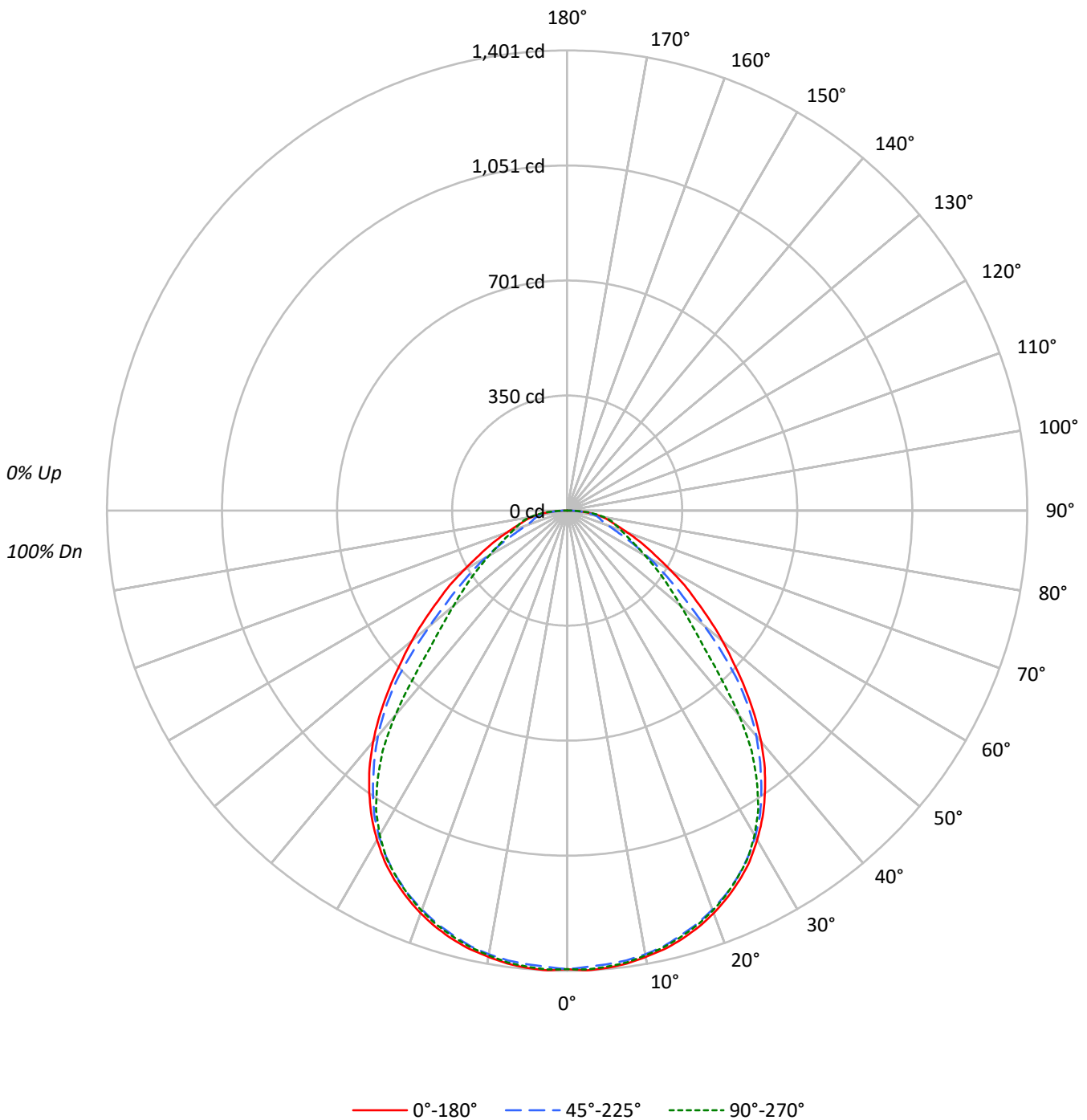
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4704	4704	4704
5°	4727	4691	4715
10°	4721	4692	4704
15°	4712	4670	4685
20°	4679	4636	4649
25°	4617	4573	4575
30°	4504	4457	4438
35°	4320	4241	4145
40°	4043	3940	3586
45°	3652	3514	2802
50°	3238	2853	2370
55°	2827	2340	2091
60°	2451	1926	1845
65°	2150	1546	1704
70°	1917	1310	1715
75°	1871	1381	1915
80°	2072	1744	2197
85°	2161	1860	2571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	4.3
10°-20°	379.5	12.5
20°-30°	567.6	18.6
30°-40°	640.8	21.0
40°-50°	543.6	17.8
50°-60°	367.8	12.1
60°-70°	219.6	7.2
70°-80°	137.5	4.5
80°-90°	57.8	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°	1079.6	35.4
0°-40°	1720.4	56.5
0°-60°	2631.8	86.4
0°-90°	3046.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3046.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1398	1393	1387	1397	1394	133
15°	1351	1348	1339	1348	1343	381
25°	1242	1238	1230	1236	1230	571
35°	1050	1043	1031	1022	1008	654
45°	766	769	737	632	588	591
55°	481	458	398	357	356	433
65°	270	224	194	207	214	269
75°	144	128	106	140	147	154
85°	56	53	48	62	66	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.1	1396.1	1396.1	1396.1	1396.1
2.5°	1401.0	1396.9	1390.5	1398.9	1398.2
5°	1397.6	1393.3	1386.9	1396.9	1394.0
7.5°	1391.2	1387.7	1381.3	1390.5	1387.7
10°	1379.8	1377.0	1371.4	1379.1	1374.9
12.5°	1367.8	1365.7	1358.6	1365.7	1361.5
15°	1350.8	1348.0	1338.8	1348.0	1343.1
17.5°	1329.6	1326.1	1318.3	1326.1	1321.9
20°	1304.8	1300.6	1292.8	1300.6	1296.4
22.5°	1275.1	1271.5	1264.5	1271.5	1265.9
25°	1241.9	1237.6	1229.9	1235.5	1230.5
27.5°	1203.7	1198.0	1190.9	1195.2	1192.4
30°	1157.7	1150.6	1145.6	1145.6	1140.7
32.5°	1107.4	1102.5	1094.0	1089.0	1082.6
35°	1050.1	1043.0	1031.0	1021.8	1007.6
37.5°	988.5	980.1	965.1	941.8	922.7
40°	919.2	908.5	895.8	849.8	815.2
42.5°	844.9	842.8	820.8	742.3	694.1
45°	766.3	769.1	737.4	631.9	588.0
47.5°	687.1	697.0	639.0	535.6	513.1
50°	617.7	621.3	544.2	464.9	452.2
52.5°	546.3	540.6	464.2	409.0	399.8
55°	481.2	458.5	398.4	356.6	355.9
57.5°	423.9	382.1	340.3	309.2	312.8
60°	363.7	317.0	285.8	268.9	273.8
62.5°	310.7	266.1	238.5	233.5	242.0
65°	269.6	223.6	193.9	206.7	213.7
67.5°	230.7	191.7	157.8	188.2	191.1
70°	194.6	166.3	133.0	173.4	174.1
72.5°	164.9	147.1	115.3	157.1	159.2
75°	143.7	128.0	106.1	140.1	147.1
77.5°	125.9	109.7	98.4	121.0	133.0
80°	106.8	88.5	89.9	101.2	113.2
82.5°	82.1	68.6	71.4	83.5	92.0
85°	55.9	53.1	48.1	62.2	66.5
87.5°	29.8	28.3	24.8	35.4	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)