

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: P225928

Luminaire Tested: **14GR-LD5-24-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225928
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-LD5-24-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: 2268.6 lumens
Efficiency: N/A
Efficacy: 108.0 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

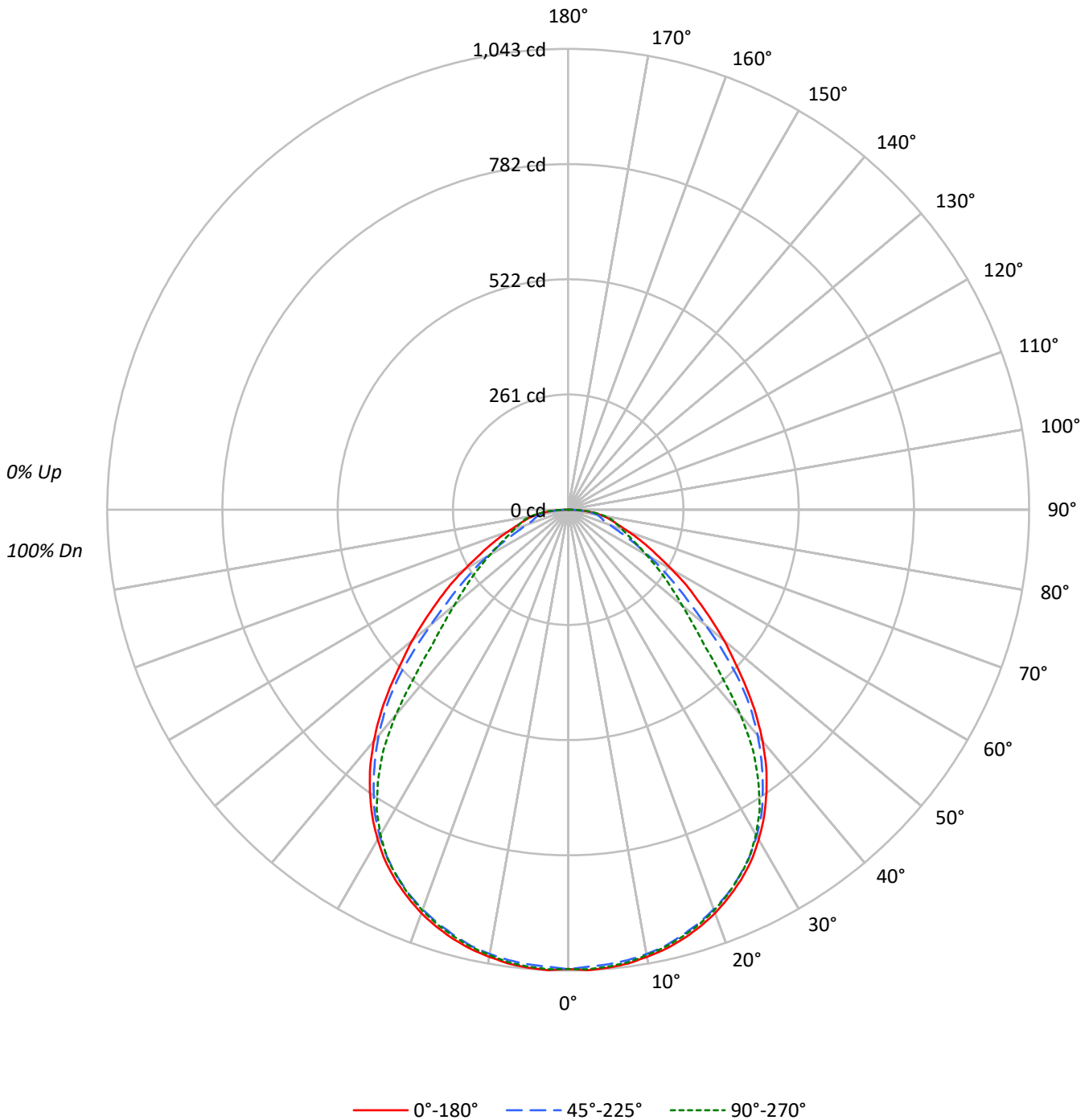
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33				33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3520	3493	3511
10°	3516	3494	3503
15°	3509	3478	3489
20°	3484	3452	3461
25°	3438	3404	3407
30°	3354	3319	3305
35°	3217	3158	3086
40°	3010	2934	2670
45°	2720	2616	2087
50°	2411	2124	1765
55°	2105	1743	1557
60°	1825	1434	1374
65°	1600	1151	1269
70°	1428	976	1277
75°	1392	1030	1427
80°	1543	1298	1636
85°	1608	1388	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	4.3
10°-20°	282.6	12.5
20°-30°	422.7	18.6
30°-40°	477.1	21.0
40°-50°	404.8	17.8
50°-60°	273.9	12.1
60°-70°	163.5	7.2
70°-80°	102.4	4.5
80°-90°	43.1	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°	803.9	35.4
0°-40°	1281.0	56.5
0°-60°	1959.7	86.4
0°-90°	2268.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1041	1038	1033	1040	1038	99
15°	1006	1004	997	1004	1000	284
25°	925	922	916	920	916	425
35°	782	777	768	761	750	487
45°	571	573	549	471	438	440
55°	358	341	297	266	265	323
65°	201	166	144	154	159	201
75°	107	95	79	104	110	115
85°	42	40	36	46	50	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.6	1039.6	1039.6	1039.6	1039.6
2.5°	1043.3	1040.1	1035.4	1041.7	1041.1
5°	1040.7	1037.5	1032.8	1040.1	1038.0
7.5°	1035.9	1033.3	1028.5	1035.4	1033.3
10°	1027.5	1025.4	1021.1	1026.9	1023.8
12.5°	1018.5	1016.9	1011.6	1016.9	1013.7
15°	1005.8	1003.7	996.9	1003.7	1000.1
17.5°	990.1	987.4	981.6	987.4	984.3
20°	971.6	968.4	962.7	968.4	965.3
22.5°	949.5	946.9	941.6	946.9	942.7
25°	924.7	921.6	915.7	920.0	916.3
27.5°	896.3	892.1	886.8	890.0	887.8
30°	862.0	856.8	853.0	853.0	849.4
32.5°	824.6	820.9	814.6	810.9	806.2
35°	782.0	776.7	767.7	760.9	750.3
37.5°	736.1	729.7	718.7	701.3	687.1
40°	684.4	676.6	667.0	632.8	607.0
42.5°	629.1	627.5	611.2	552.7	516.9
45°	570.7	572.8	549.0	470.6	437.9
47.5°	511.6	519.0	475.8	398.9	382.0
50°	460.0	462.6	405.2	346.2	336.7
52.5°	406.8	402.6	345.6	304.6	297.7
55°	358.3	341.4	296.7	265.5	265.0
57.5°	315.6	284.6	253.4	230.2	232.9
60°	270.8	236.1	212.8	200.2	203.9
62.5°	231.3	198.1	177.5	173.9	180.2
65°	200.7	166.5	144.4	153.9	159.2
67.5°	171.8	142.8	117.5	140.1	142.2
70°	144.9	123.9	99.1	129.1	129.6
72.5°	122.8	109.6	85.9	116.9	118.6
75°	106.9	95.4	79.1	104.3	109.6
77.5°	93.8	81.6	73.3	90.1	99.1
80°	79.5	65.9	66.9	75.3	84.3
82.5°	61.2	51.1	53.2	62.2	68.5
85°	41.6	39.5	35.9	46.4	49.5
87.5°	22.1	21.1	18.5	26.4	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)