

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: P225929

Luminaire Tested: **14GR-LD5-28-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225929
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-LD5-28-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: 2621.7 lumens
Efficiency: N/A
Efficacy: 105.3 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

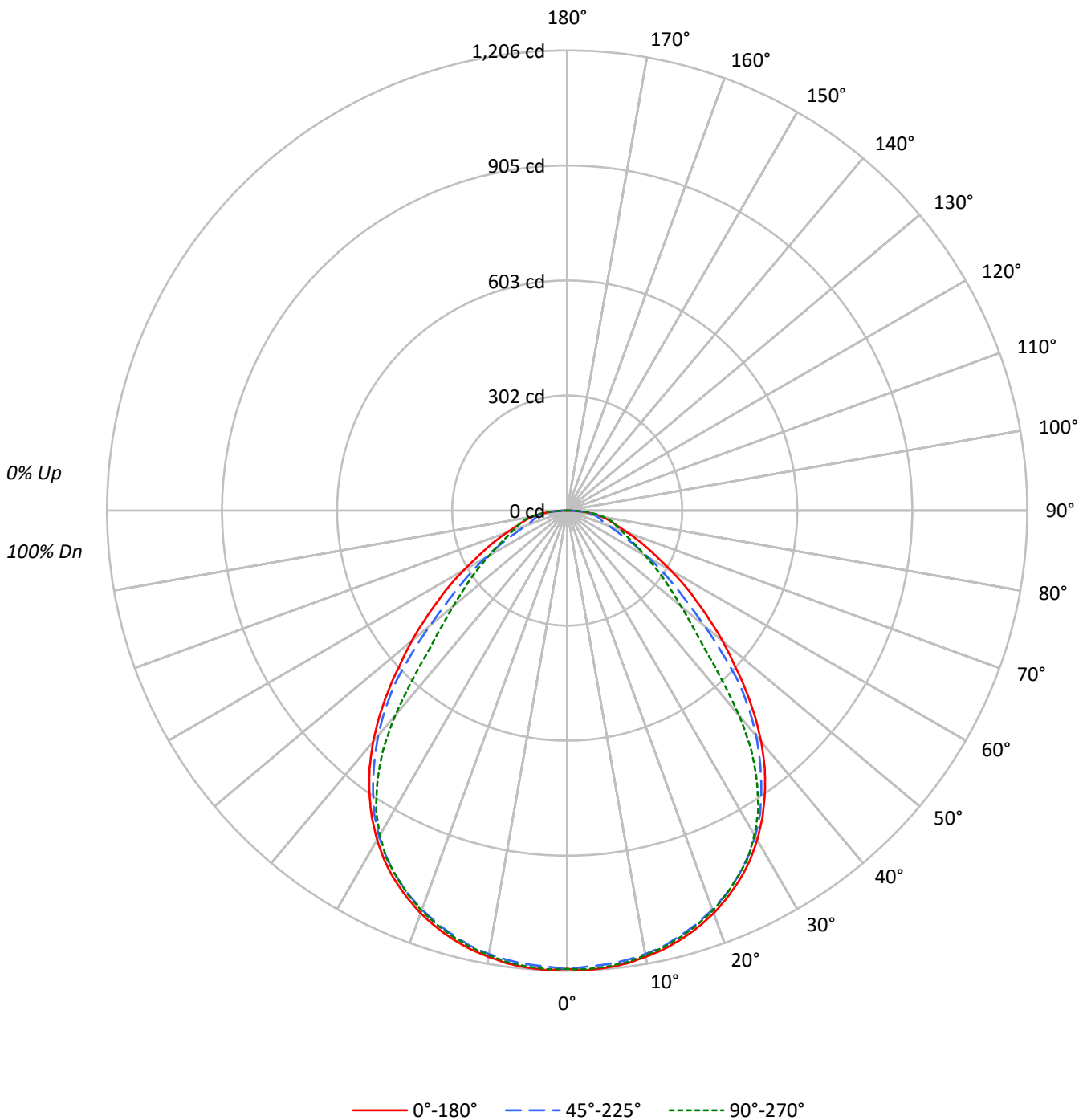
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4048	4048	4048
5°	4068	4037	4058
10°	4063	4038	4048
15°	4055	4019	4032
20°	4026	3989	4000
25°	3973	3935	3937
30°	3876	3836	3819
35°	3717	3649	3566
40°	3479	3391	3085
45°	3143	3024	2412
50°	2787	2455	2040
55°	2432	2014	1799
60°	2109	1658	1588
65°	1850	1330	1466
70°	1649	1128	1476
75°	1609	1190	1650
80°	1783	1502	1892
85°	1860	1601	2211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	4.3
10°-20°	326.5	12.5
20°-30°	488.5	18.6
30°-40°	551.4	21.0
40°-50°	467.8	17.8
50°-60°	316.5	12.1
60°-70°	188.9	7.2
70°-80°	118.3	4.5
80°-90°	49.8	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°	929.0	35.4
0°-40°	1480.4	56.5
0°-60°	2264.7	86.4
0°-90°	2621.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1203	1199	1194	1202	1200	114
15°	1162	1160	1152	1160	1156	328
25°	1069	1065	1058	1063	1059	491
35°	904	898	887	879	867	563
45°	660	662	634	544	506	508
55°	414	395	343	307	306	373
65°	232	192	167	178	184	232
75°	124	110	91	121	127	133
85°	48	46	41	54	57	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.4	1201.4	1201.4	1201.4	1201.4
2.5°	1205.7	1202.0	1196.5	1203.8	1203.2
5°	1202.6	1198.9	1193.5	1202.0	1199.6
7.5°	1197.1	1194.1	1188.6	1196.5	1194.1
10°	1187.4	1184.9	1180.1	1186.7	1183.1
12.5°	1177.0	1175.2	1169.1	1175.2	1171.5
15°	1162.4	1160.0	1152.1	1160.0	1155.7
17.5°	1144.1	1141.1	1134.4	1141.1	1137.4
20°	1122.8	1119.2	1112.5	1119.2	1115.6
22.5°	1097.3	1094.2	1088.1	1094.2	1089.4
25°	1068.6	1065.0	1058.3	1063.2	1058.9
27.5°	1035.8	1030.8	1024.8	1028.5	1026.0
30°	996.2	990.1	985.8	985.8	981.5
32.5°	953.0	948.7	941.4	937.1	931.7
35°	903.6	897.5	887.2	879.2	867.0
37.5°	850.7	843.4	830.6	810.4	794.1
40°	791.0	781.9	770.9	731.3	701.4
42.5°	727.0	725.2	706.3	638.7	597.3
45°	659.5	661.8	634.5	543.7	506.1
47.5°	591.2	599.8	549.8	460.9	441.4
50°	531.6	534.6	468.3	400.0	389.1
52.5°	470.1	465.2	399.5	352.0	344.1
55°	414.0	394.6	342.8	306.9	306.3
57.5°	364.7	328.8	292.9	266.1	269.2
60°	312.9	272.8	246.0	231.4	235.7
62.5°	267.3	229.0	205.2	200.9	208.2
65°	232.0	192.4	166.8	177.8	183.9
67.5°	198.5	165.0	135.8	162.0	164.4
70°	167.4	143.1	114.5	149.1	149.8
72.5°	141.9	126.7	99.3	135.1	137.0
75°	123.6	110.2	91.4	120.6	126.7
77.5°	108.4	94.4	84.6	104.1	114.5
80°	91.9	76.1	77.4	87.1	97.5
82.5°	70.6	59.1	61.5	71.9	79.2
85°	48.1	45.7	41.4	53.6	57.2
87.5°	25.6	24.4	21.3	30.5	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)