

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: P225915

Luminaire Tested: **14GR-LD5-28-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225915
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-L935-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: 2408.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

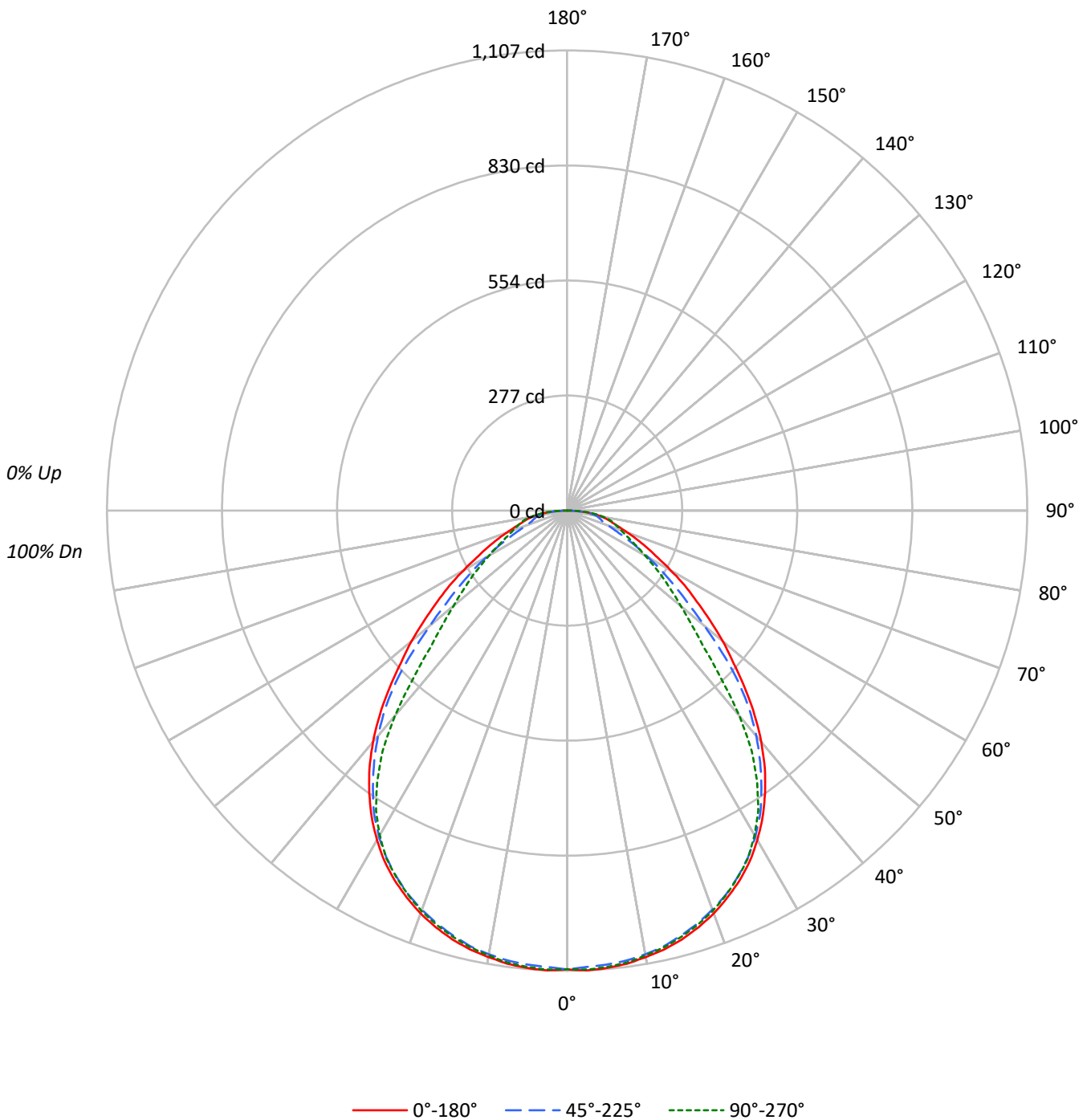
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3718	3718	3718
5°	3736	3708	3727
10°	3732	3709	3718
15°	3725	3691	3703
20°	3698	3664	3674
25°	3650	3614	3616
30°	3560	3523	3508
35°	3414	3352	3276
40°	3196	3114	2834
45°	2886	2777	2215
50°	2559	2255	1874
55°	2234	1849	1653
60°	1938	1522	1458
65°	1699	1222	1347
70°	1515	1035	1356
75°	1479	1092	1515
80°	1640	1380	1737
85°	1709	1469	2034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	4.3
10°-20°	299.9	12.5
20°-30°	448.7	18.6
30°-40°	506.5	21.0
40°-50°	429.7	17.8
50°-60°	290.7	12.1
60°-70°	173.5	7.2
70°-80°	108.7	4.5
80°-90°	45.7	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°	853.3	35.4
0°-40°	1359.7	56.5
0°-60°	2080.1	86.4
0°-90°	2408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1105	1101	1096	1104	1102	105
15°	1068	1066	1058	1066	1062	301
25°	982	978	972	976	973	451
35°	830	824	815	808	796	517
45°	606	608	583	500	465	467
55°	380	362	315	282	281	343
65°	213	177	153	163	169	213
75°	114	101	84	111	116	122
85°	44	42	38	49	53	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.5	1103.5	1103.5	1103.5	1103.5
2.5°	1107.4	1104.1	1099.0	1105.7	1105.2
5°	1104.6	1101.3	1096.2	1104.1	1101.8
7.5°	1099.6	1096.8	1091.7	1099.0	1096.8
10°	1090.6	1088.3	1083.9	1090.0	1086.7
12.5°	1081.1	1079.4	1073.8	1079.4	1076.1
15°	1067.7	1065.5	1058.2	1065.5	1061.6
17.5°	1050.9	1048.1	1041.9	1048.1	1044.7
20°	1031.3	1028.0	1021.8	1028.0	1024.6
22.5°	1007.8	1005.0	999.4	1005.0	1000.5
25°	981.6	978.2	972.1	976.5	972.6
27.5°	951.3	946.9	941.3	944.6	942.4
30°	915.0	909.4	905.5	905.5	901.6
32.5°	875.2	871.3	864.6	860.7	855.7
35°	830.0	824.4	814.9	807.6	796.4
37.5°	781.3	774.6	762.9	744.4	729.3
40°	726.5	718.2	708.0	671.7	644.3
42.5°	667.8	666.1	648.8	586.7	548.7
45°	605.7	607.9	582.8	499.5	464.8
47.5°	543.1	550.9	505.1	423.4	405.4
50°	488.2	491.0	430.1	367.5	357.4
52.5°	431.8	427.3	366.9	323.3	316.0
55°	380.3	362.4	314.8	281.9	281.3
57.5°	335.0	302.0	269.0	244.4	247.2
60°	287.5	250.6	225.9	212.5	216.4
62.5°	245.6	210.3	188.4	184.5	191.2
65°	213.1	176.7	153.3	163.3	168.9
67.5°	182.3	151.6	124.7	148.8	151.0
70°	153.8	131.4	105.1	137.0	137.6
72.5°	130.3	116.4	91.2	124.2	125.8
75°	113.6	101.2	83.9	110.8	116.4
77.5°	99.5	86.7	77.8	95.6	105.1
80°	84.5	69.9	71.1	80.0	89.5
82.5°	64.9	54.2	56.5	66.0	72.7
85°	44.2	41.9	38.0	49.2	52.6
87.5°	23.5	22.4	19.6	28.0	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)