

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: P225770

Luminaire Tested: **22GR-LD5-28-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2328.8 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

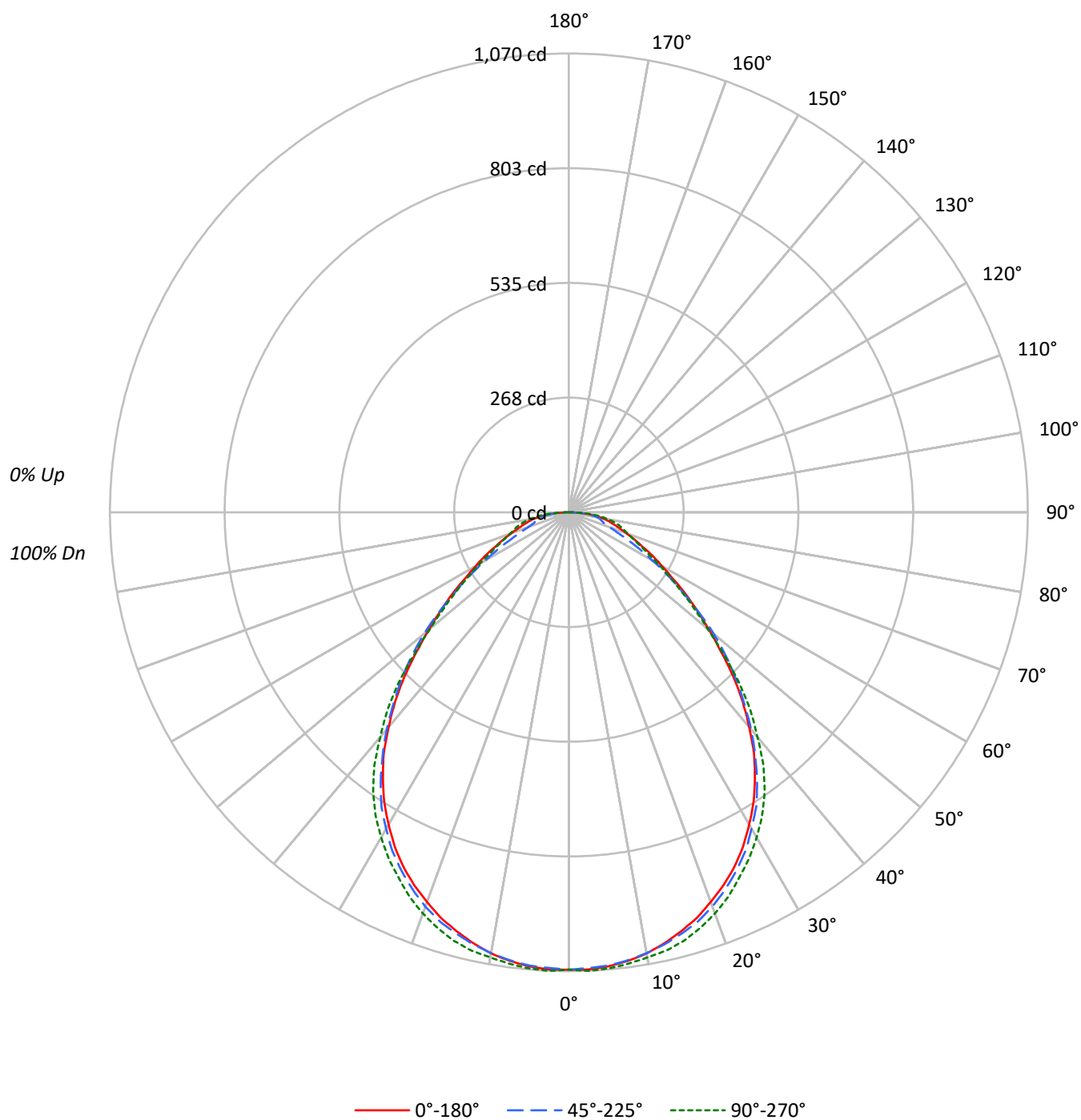
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	106	102	98	107	103	100	97		99	96	94			95	93	91			92
2	101	94	87	82	99	92	86	81		88	84	79			85	81	78			82
3	93	84	76	70	91	82	75	70		79	73	68			76	71	67			74
4	86	75	67	61	84	74	66	60		71	65	60			69	63	59			67
5	80	68	59	53	78	67	59	53		65	58	53			63	57	52			61
6	74	62	53	47	72	61	53	47		59	52	47			57	51	46			56
7	69	56	48	42	67	55	48	42		54	47	42			53	46	42			51
8	64	52	44	38	63	51	43	38		50	43	38			48	42	38			47
9	60	48	40	35	59	47	40	35		46	39	34			45	39	34			44
10	57	44	37	32	55	44	36	32		43	36	31			42	36	31			41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3415	3415	3415
5°	3416	3411	3432
10°	3396	3394	3427
15°	3353	3370	3430
20°	3295	3334	3393
25°	3225	3261	3320
30°	3108	3150	3236
35°	2956	2989	3110
40°	2732	2762	2859
45°	2454	2499	2538
50°	2122	2198	2100
55°	1852	1803	1779
60°	1603	1444	1541
65°	1433	1134	1384
70°	1330	939	1365
75°	1328	992	1516
80°	1468	1249	1710
85°	1532	1352	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	4.3
10°-20°	287.4	12.3
20°-30°	425.1	18.3
30°-40°	479.7	20.6
40°-50°	422.9	18.2
50°-60°	290.1	12.5
60°-70°	171.2	7.4
70°-80°	106.8	4.6
80°-90°	44.5	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°	813.5	34.9
0°-40°	1293.2	55.5
0°-60°	2006.3	86.1
0°-90°	2328.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1063	1060	1061	1065	1068	101
15°	1011	1012	1017	1029	1034	285
25°	913	916	923	935	940	419
35°	756	762	765	783	796	471
45°	542	545	552	555	560	416
55°	332	324	323	312	319	297
65°	189	166	150	173	183	191
75°	107	96	80	112	122	115
85°	42	39	37	48	53	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.5	1066.5	1066.5	1066.5	1066.5
2.5°	1067.1	1064.4	1063.3	1067.6	1070.3
5°	1062.7	1060.5	1061.1	1064.9	1067.6
7.5°	1055.1	1053.5	1053.5	1058.9	1061.7
10°	1044.3	1043.8	1043.8	1050.3	1054.0
12.5°	1029.1	1029.7	1031.8	1040.5	1047.0
15°	1011.2	1012.3	1016.6	1029.1	1034.5
17.5°	991.7	991.7	1000.4	1010.2	1016.6
20°	966.8	968.4	978.2	989.0	995.5
22.5°	941.4	944.1	952.2	964.6	970.6
25°	912.6	915.9	922.9	934.8	939.7
27.5°	879.0	883.3	890.9	899.6	909.9
30°	840.5	847.1	851.9	863.8	875.2
32.5°	801.5	807.5	812.9	825.3	838.4
35°	756.0	762.5	764.6	783.1	795.6
37.5°	709.4	712.1	713.2	731.6	745.1
40°	653.5	659.0	660.6	675.3	683.9
42.5°	599.9	602.0	605.3	616.1	626.5
45°	541.9	544.6	551.7	554.9	560.4
47.5°	481.3	489.4	497.5	487.2	487.7
50°	426.0	432.5	441.2	421.6	421.6
52.5°	376.6	379.9	380.4	364.2	367.4
55°	331.7	323.5	323.0	312.2	318.7
57.5°	286.7	275.8	272.1	268.8	276.4
60°	250.3	230.8	225.4	230.3	240.6
62.5°	220.6	195.7	185.3	197.8	207.0
65°	189.1	166.4	149.6	172.9	182.6
67.5°	164.7	143.1	121.4	154.5	161.5
70°	142.0	125.2	100.3	140.4	145.8
72.5°	123.6	110.5	86.7	126.8	133.3
75°	107.3	96.4	80.2	112.2	122.5
77.5°	94.3	82.4	74.8	97.0	109.5
80°	79.6	67.7	67.7	81.3	92.7
82.5°	62.9	53.1	54.7	66.1	74.2
85°	41.7	39.0	36.8	48.2	52.6
87.5°	21.2	21.6	19.5	24.9	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)