

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: P225771

Luminaire Tested: **22GR-LD5-32-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225771
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-LD5-32-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: 2626.5 lumens
Efficiency: N/A
Efficacy: 87.7 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

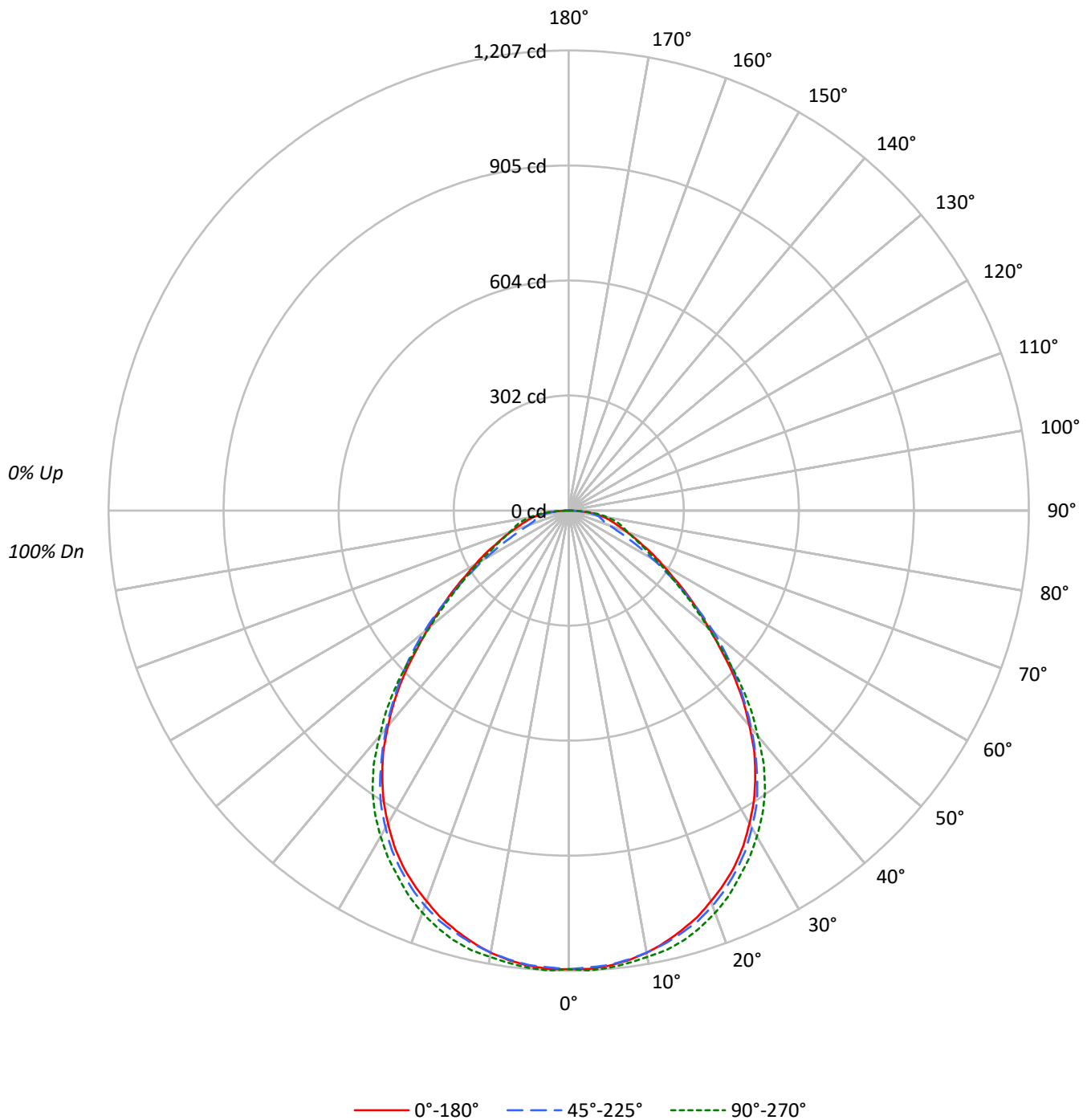
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3852	3852	3852
5°	3853	3847	3871
10°	3830	3828	3866
15°	3781	3802	3868
20°	3716	3760	3826
25°	3637	3678	3745
30°	3505	3553	3650
35°	3333	3372	3508
40°	3081	3115	3224
45°	2768	2818	2862
50°	2393	2479	2369
55°	2089	2033	2007
60°	1809	1629	1738
65°	1616	1278	1561
70°	1499	1059	1539
75°	1497	1119	1710
80°	1658	1409	1929
85°	1731	1529	2179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	4.3
10°-20°	324.2	12.3
20°-30°	479.5	18.3
30°-40°	541.1	20.6
40°-50°	477.0	18.2
50°-60°	327.2	12.5
60°-70°	193.1	7.4
70°-80°	120.5	4.6
80°-90°	50.2	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°	917.5	34.9
0°-40°	1458.5	55.5
0°-60°	2262.7	86.1
0°-90°	2626.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1198	1196	1197	1201	1204	114
15°	1140	1142	1147	1161	1167	321
25°	1029	1033	1041	1054	1060	473
35°	853	860	862	883	897	531
45°	611	614	622	626	632	470
55°	374	365	364	352	359	336
65°	213	188	169	195	206	215
75°	121	109	90	126	138	130
85°	47	44	42	54	59	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.9	1202.9	1202.9	1202.9	1202.9
2.5°	1203.4	1200.4	1199.2	1204.0	1207.1
5°	1198.5	1196.1	1196.7	1201.0	1204.0
7.5°	1190.0	1188.2	1188.2	1194.2	1197.3
10°	1177.8	1177.2	1177.2	1184.5	1188.8
12.5°	1160.6	1161.3	1163.7	1173.5	1180.8
15°	1140.5	1141.7	1146.6	1160.6	1166.8
17.5°	1118.5	1118.5	1128.2	1139.2	1146.6
20°	1090.4	1092.2	1103.2	1115.4	1122.7
22.5°	1061.7	1064.7	1073.9	1087.9	1094.6
25°	1029.3	1032.9	1040.8	1054.3	1059.8
27.5°	991.4	996.2	1004.8	1014.6	1026.2
30°	947.9	955.3	960.8	974.2	987.0
32.5°	904.0	910.7	916.8	930.9	945.5
35°	852.6	859.9	862.4	883.1	897.2
37.5°	800.1	803.1	804.3	825.1	840.4
40°	737.1	743.2	745.1	761.5	771.3
42.5°	676.6	679.0	682.7	694.9	706.5
45°	611.2	614.3	622.2	625.8	632.0
47.5°	542.8	551.9	561.0	549.5	550.1
50°	480.4	487.7	497.5	475.5	475.5
52.5°	424.8	428.4	429.0	410.7	414.4
55°	374.1	364.9	364.2	352.0	359.4
57.5°	323.3	311.1	306.8	303.2	311.7
60°	282.4	260.3	254.3	259.8	271.3
62.5°	248.8	220.7	209.0	223.1	233.5
65°	213.3	187.6	168.7	195.0	206.0
67.5°	185.8	161.4	136.9	174.2	182.1
70°	160.1	141.2	113.1	158.3	164.4
72.5°	139.3	124.7	97.8	143.0	150.4
75°	121.0	108.8	90.4	126.5	138.2
77.5°	106.4	92.9	84.4	109.4	123.5
80°	89.9	76.4	76.4	91.7	104.6
82.5°	70.9	59.9	61.7	74.5	83.7
85°	47.1	44.0	41.6	54.4	59.3
87.5°	23.9	24.4	22.0	28.1	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)