

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: P225791

Luminaire Tested: **22GR-LD5-28-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225791
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-L950-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: 2673.6 lumens
Efficiency: N/A
Efficacy: 116.3 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

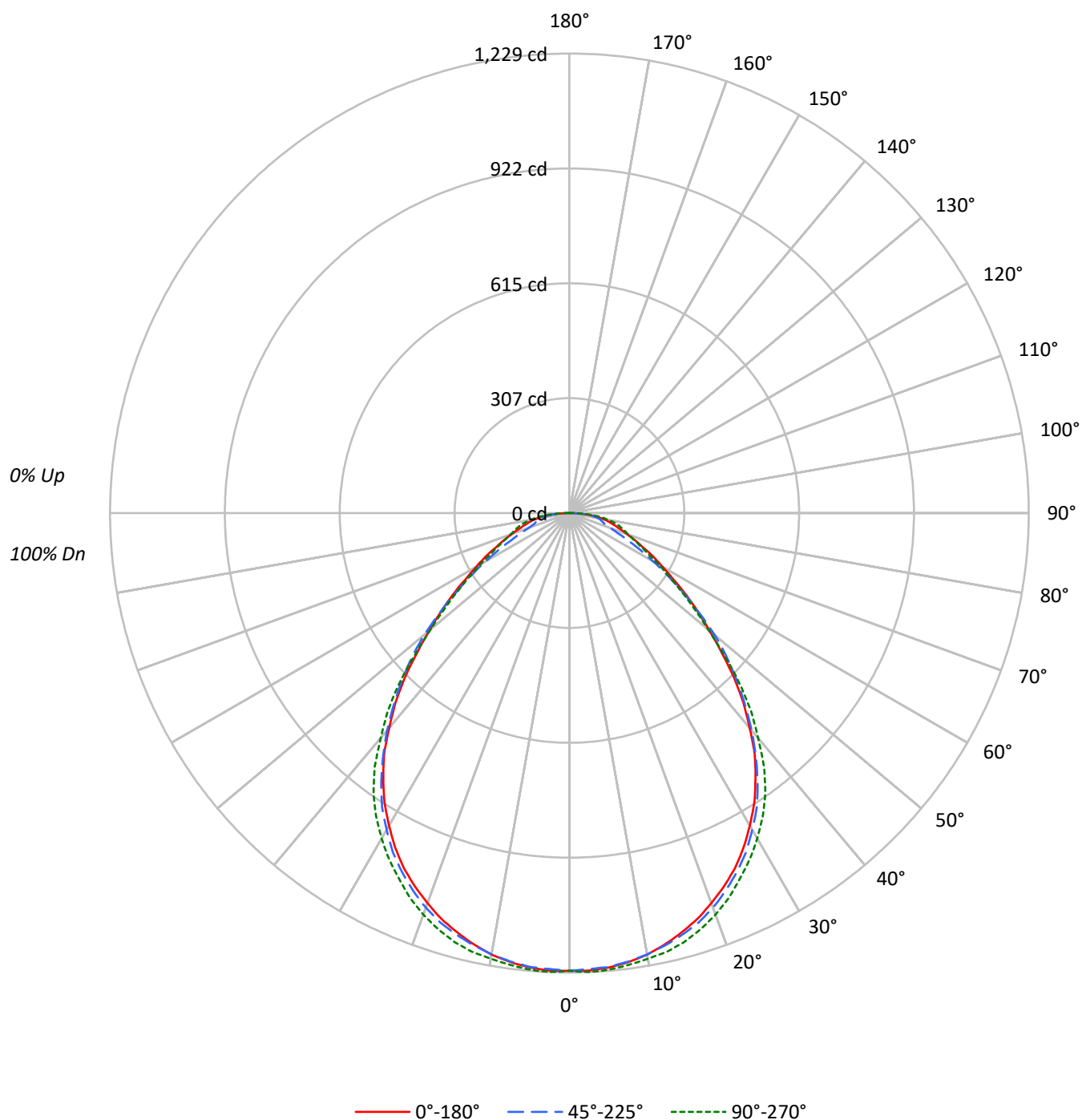
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3921	3921	3921
5°	3922	3916	3940
10°	3899	3897	3935
15°	3849	3870	3938
20°	3783	3827	3895
25°	3702	3744	3812
30°	3568	3617	3716
35°	3393	3432	3571
40°	3137	3171	3282
45°	2818	2869	2914
50°	2436	2523	2411
55°	2126	2070	2042
60°	1841	1658	1770
65°	1645	1301	1589
70°	1526	1078	1567
75°	1524	1140	1740
80°	1687	1435	1962
85°	1760	1554	2216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	4.3
10°-20°	330.0	12.3
20°-30°	488.1	18.3
30°-40°	550.8	20.6
40°-50°	485.5	18.2
50°-60°	333.1	12.5
60°-70°	196.5	7.4
70°-80°	122.6	4.6
80°-90°	51.1	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°	933.9	34.9
0°-40°	1484.7	55.5
0°-60°	2303.3	86.1
0°-90°	2673.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1220	1218	1218	1222	1226	116
15°	1161	1162	1167	1182	1188	327
25°	1048	1051	1060	1073	1079	481
35°	868	875	878	899	913	541
45°	622	625	633	637	643	478
55°	381	372	371	358	366	342
65°	217	191	172	198	210	219
75°	123	111	92	129	141	132
85°	48	45	42	55	60	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.4	1224.4	1224.4	1224.4	1224.4
2.5°	1225.0	1221.9	1220.7	1225.7	1228.8
5°	1220.0	1217.6	1218.2	1222.5	1225.7
7.5°	1211.3	1209.5	1209.5	1215.7	1218.8
10°	1198.9	1198.3	1198.3	1205.8	1210.1
12.5°	1181.5	1182.1	1184.5	1194.6	1202.0
15°	1161.0	1162.2	1167.2	1181.5	1187.7
17.5°	1138.5	1138.5	1148.5	1159.7	1167.2
20°	1109.9	1111.8	1123.0	1135.4	1142.9
22.5°	1080.7	1083.8	1093.1	1107.5	1114.3
25°	1047.7	1051.4	1059.5	1073.3	1078.8
27.5°	1009.1	1014.1	1022.8	1032.8	1044.6
30°	965.0	972.4	978.1	991.7	1004.8
32.5°	920.2	927.0	933.2	947.6	962.5
35°	867.9	875.3	877.9	899.0	913.4
37.5°	814.4	817.5	818.7	839.9	855.5
40°	750.3	756.6	758.4	775.2	785.1
42.5°	688.7	691.2	695.0	707.4	719.2
45°	622.2	625.3	633.4	637.1	643.3
47.5°	552.5	561.8	571.1	559.3	559.9
50°	489.0	496.5	506.4	484.0	484.0
52.5°	432.4	436.2	436.7	418.1	421.8
55°	380.7	371.5	370.8	358.4	365.8
57.5°	329.1	316.7	312.3	308.6	317.3
60°	287.5	265.1	258.8	264.4	276.3
62.5°	253.3	224.6	212.8	227.0	237.7
65°	217.1	191.0	171.7	198.5	209.7
67.5°	189.1	164.3	139.3	177.4	185.4
70°	163.0	143.7	115.1	161.2	167.3
72.5°	141.9	126.9	99.6	145.6	153.1
75°	123.2	110.7	92.1	128.8	140.6
77.5°	108.3	94.5	85.8	111.4	125.7
80°	91.5	77.8	77.8	93.4	106.4
82.5°	72.2	61.0	62.9	75.9	85.3
85°	47.9	44.8	42.3	55.3	60.3
87.5°	24.3	24.8	22.4	28.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)