

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: P225798

Luminaire Tested: **22GR-LD5-28-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F1-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2336.2 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

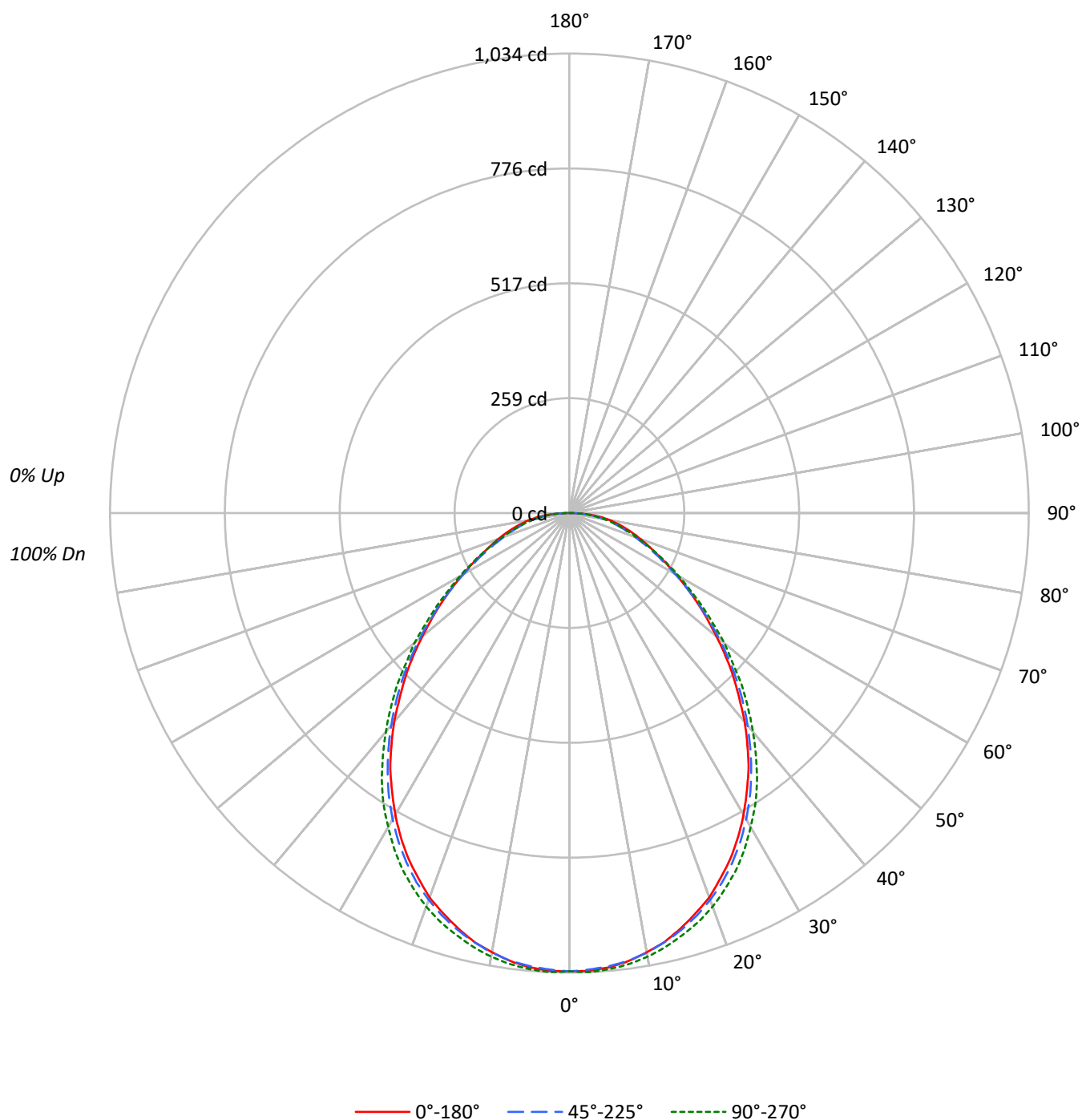
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96		98	95	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	83	72	64	58		70	63	58			67	62	57			65
5	78	66	58	51	76	65	57	51		63	56	51			61	55	50			59
6	73	60	51	45	71	59	51	45		57	50	45			56	49	44			54
7	68	55	46	40	66	54	46	40		52	45	40			51	45	40			50
8	63	50	42	36	62	49	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			43	37	33			42
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3303	3303	3303
5°	3299	3290	3312
10°	3264	3267	3297
15°	3208	3221	3260
20°	3137	3157	3212
25°	3031	3065	3133
30°	2899	2942	3016
35°	2748	2788	2878
40°	2565	2607	2688
45°	2366	2412	2485
50°	2152	2192	2269
55°	1956	1971	2031
60°	1774	1761	1825
65°	1632	1588	1652
70°	1585	1470	1525
75°	1604	1439	1459
80°	1710	1474	1492
85°	1889	1576	1554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	4.2
10°-20°	274.2	11.7
20°-30°	399.7	17.1
30°-40°	446.8	19.1
40°-50°	410.9	17.6
50°-60°	318.3	13.6
60°-70°	213.4	9.1
70°-80°	127.7	5.5
80°-90°	47.7	2.0
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°	771.2	33.0
0°-40°	1218.1	52.1
0°-60°	1947.3	83.4
0°-90°	2336.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1026	1024	1023	1028	1030	97
15°	968	969	972	979	983	273
25°	858	860	868	880	887	394
35°	703	704	713	727	736	438
45°	522	524	533	541	549	402
55°	350	351	353	358	364	314
65°	215	214	210	212	218	217
75°	130	124	116	115	118	137
85°	51	52	43	40	42	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.4	1031.4	1031.4	1031.4	1031.4
2.5°	1030.9	1028.8	1028.2	1031.4	1034.1
5°	1026.1	1023.9	1023.4	1027.7	1030.3
7.5°	1017.0	1015.3	1015.9	1020.2	1023.9
10°	1003.6	1003.0	1004.7	1010.0	1013.8
12.5°	988.6	987.5	989.1	996.1	999.8
15°	967.7	968.7	971.5	978.9	983.2
17.5°	944.6	945.7	950.5	958.0	965.0
20°	920.5	920.0	926.4	936.6	942.5
22.5°	888.9	891.6	899.1	909.8	915.7
25°	857.8	860.0	867.5	879.8	886.7
27.5°	822.0	825.7	833.7	845.5	853.5
30°	783.9	787.1	795.6	809.1	815.5
32.5°	742.7	746.9	756.0	770.5	778.5
35°	703.0	704.1	713.2	727.1	736.2
37.5°	658.0	660.7	669.2	684.8	689.6
40°	613.5	615.7	623.7	636.6	643.0
42.5°	565.8	569.6	578.1	587.8	595.3
45°	522.4	524.1	532.6	540.6	548.7
47.5°	476.9	478.5	486.0	494.5	497.7
50°	431.9	434.0	439.9	448.5	455.4
52.5°	390.1	391.1	393.8	403.4	406.7
55°	350.4	351.0	353.1	358.4	363.8
57.5°	312.9	312.3	311.8	316.7	321.5
60°	277.0	275.9	274.9	278.6	285.0
62.5°	245.4	244.4	240.0	244.4	249.7
65°	215.4	213.8	209.5	211.6	218.0
67.5°	191.8	188.6	181.6	184.3	189.2
70°	169.3	165.1	157.0	159.2	162.9
72.5°	149.5	143.1	136.1	136.6	140.4
75°	129.6	124.3	116.3	115.2	117.9
77.5°	110.9	106.6	98.1	96.4	98.6
80°	92.7	88.4	79.9	76.6	80.9
82.5°	72.9	71.3	61.6	59.4	61.1
85°	51.4	52.0	42.9	40.2	42.3
87.5°	26.2	27.3	22.0	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)