

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: P225796

Luminaire Tested: **22GR-LD5-20-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225796
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-LD5-20-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: 1667.1 lumens
Efficiency: N/A
Efficacy: 103.4 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

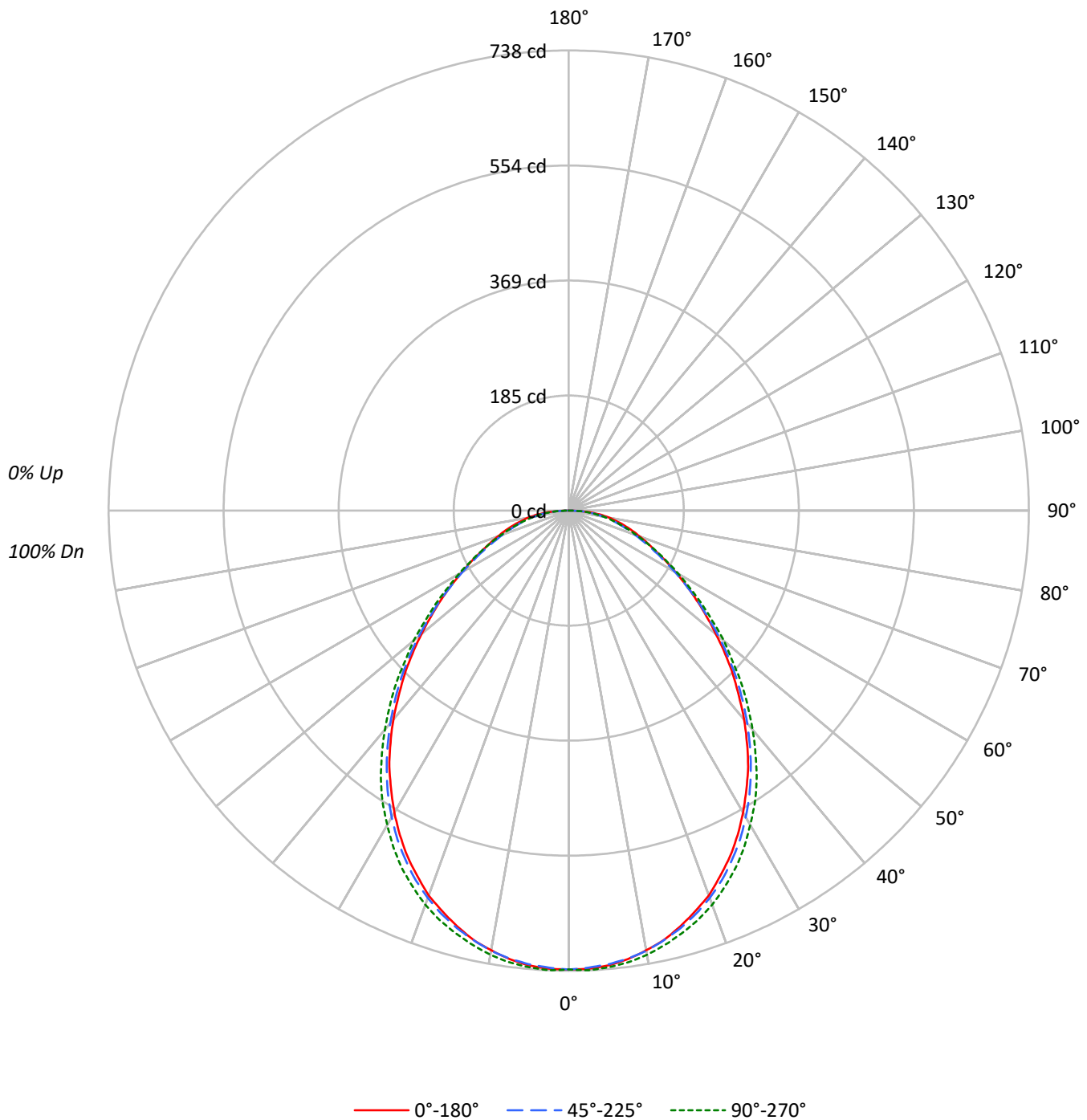
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2357	2357	2357
5°	2354	2348	2363
10°	2329	2331	2352
15°	2289	2298	2326
20°	2239	2253	2292
25°	2163	2187	2236
30°	2069	2100	2152
35°	1961	1990	2054
40°	1830	1860	1918
45°	1688	1721	1773
50°	1536	1564	1619
55°	1396	1407	1449
60°	1266	1256	1303
65°	1165	1133	1179
70°	1131	1049	1088
75°	1145	1027	1041
80°	1221	1051	1064
85°	1349	1124	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	4.2
10°-20°	195.7	11.7
20°-30°	285.2	17.1
30°-40°	318.9	19.1
40°-50°	293.2	17.6
50°-60°	227.2	13.6
60°-70°	152.3	9.1
70°-80°	91.1	5.5
80°-90°	34.1	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°	550.3	33.0
0°-40°	869.2	52.1
0°-60°	1389.6	83.4
0°-90°	1667.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	732	731	730	733	735	69
15°	690	691	693	699	702	194
25°	612	614	619	628	633	281
35°	502	502	509	519	525	313
45°	373	374	380	386	392	287
55°	250	250	252	256	260	224
65°	154	152	150	151	156	155
75°	92	89	83	82	84	98
85°	37	37	31	29	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.0	736.0	736.0	736.0	736.0
2.5°	735.6	734.1	733.7	736.0	737.9
5°	732.2	730.7	730.3	733.3	735.2
7.5°	725.7	724.6	725.0	728.0	730.7
10°	716.1	715.8	716.9	720.7	723.4
12.5°	705.4	704.6	705.8	710.8	713.5
15°	690.5	691.3	693.2	698.6	701.6
17.5°	674.0	674.9	678.3	683.6	688.6
20°	656.9	656.5	661.1	668.3	672.6
22.5°	634.4	636.2	641.6	649.2	653.5
25°	612.1	613.7	619.0	627.8	632.8
27.5°	586.5	589.2	594.9	603.4	609.1
30°	559.4	561.7	567.8	577.4	582.0
32.5°	530.0	533.0	539.5	549.8	555.6
35°	501.7	502.4	508.9	518.8	525.4
37.5°	469.5	471.4	477.6	488.6	492.1
40°	437.8	439.4	445.0	454.2	458.8
42.5°	403.8	406.5	412.5	419.4	424.8
45°	372.8	373.9	380.1	385.8	391.5
47.5°	340.3	341.4	346.8	352.9	355.2
50°	308.2	309.7	313.9	320.0	325.0
52.5°	278.3	279.1	281.0	287.9	290.2
55°	250.0	250.4	252.0	255.8	259.6
57.5°	223.3	222.9	222.5	226.0	229.4
60°	197.7	196.9	196.1	198.8	203.4
62.5°	175.2	174.3	171.3	174.3	178.2
65°	153.7	152.5	149.5	151.0	155.6
67.5°	136.9	134.6	129.6	131.5	135.0
70°	120.8	117.8	112.0	113.6	116.2
72.5°	106.7	102.1	97.1	97.5	100.2
75°	92.5	88.7	83.0	82.2	84.1
77.5°	79.1	76.1	69.9	68.8	70.4
80°	66.2	63.1	57.0	54.7	57.7
82.5°	52.0	50.8	44.0	42.5	43.6
85°	36.7	37.1	30.6	28.7	30.2
87.5°	18.7	19.5	15.7	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)