

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: P225800

Luminaire Tested: **22GR-LD5-36-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225800
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-LD5-36-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: 2935.6 lumens
Efficiency: N/A
Efficacy: 84.9 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

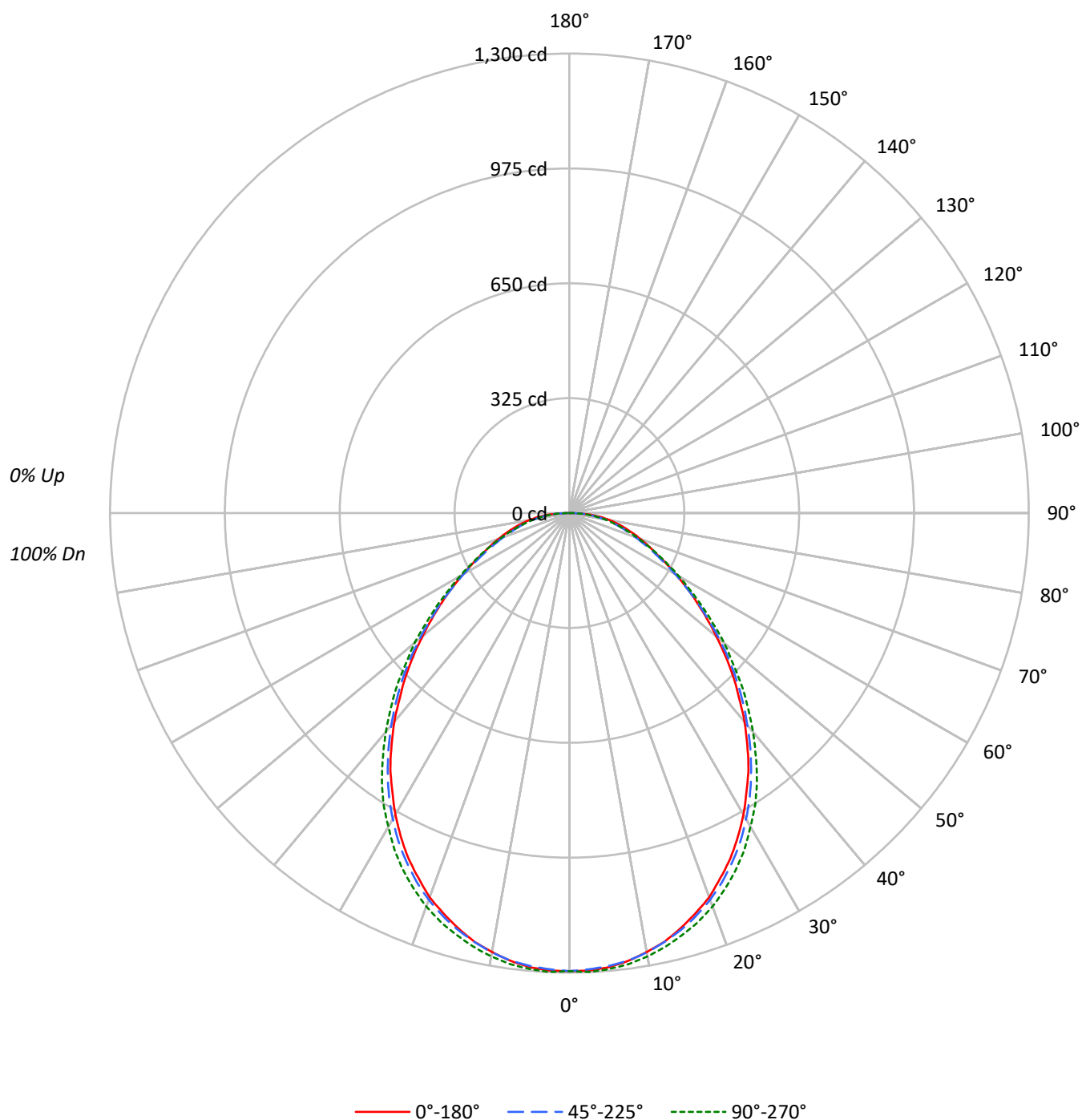
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47		
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42		
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38		
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4151	4151	4151
5°	4145	4134	4162
10°	4101	4105	4143
15°	4032	4047	4096
20°	3942	3968	4036
25°	3809	3852	3937
30°	3642	3697	3790
35°	3454	3504	3617
40°	3223	3276	3377
45°	2973	3031	3123
50°	2704	2754	2851
55°	2458	2477	2553
60°	2230	2212	2294
65°	2051	1994	2076
70°	1993	1847	1917
75°	2016	1808	1833
80°	2147	1850	1876
85°	2374	1981	1955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.2
10°-20°	344.6	11.7
20°-30°	502.3	17.1
30°-40°	561.5	19.1
40°-50°	516.4	17.6
50°-60°	400.0	13.6
60°-70°	268.2	9.1
70°-80°	160.4	5.5
80°-90°	60.0	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°	969.1	33.0
0°-40°	1530.6	52.1
0°-60°	2447.0	83.4
0°-90°	2935.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1289	1287	1286	1291	1295	122
15°	1216	1217	1221	1230	1236	342
25°	1078	1081	1090	1106	1114	495
35°	883	885	896	914	925	550
45°	656	658	669	679	690	506
55°	440	441	444	450	457	395
65°	271	269	263	266	274	272
75°	163	156	146	145	148	173
85°	65	65	54	50	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1295.4	1292.7	1292.1	1296.1	1299.5
5°	1289.4	1286.7	1286.0	1291.3	1294.7
7.5°	1277.9	1275.9	1276.6	1281.9	1286.7
10°	1261.1	1260.4	1262.4	1269.1	1273.9
12.5°	1242.2	1240.9	1242.9	1251.6	1256.3
15°	1216.0	1217.3	1220.7	1230.1	1235.5
17.5°	1187.0	1188.3	1194.4	1203.8	1212.6
20°	1156.7	1156.0	1164.2	1176.9	1184.3
22.5°	1117.0	1120.4	1129.8	1143.2	1150.6
25°	1078.0	1080.6	1090.0	1105.5	1114.3
27.5°	1032.8	1037.5	1047.6	1062.5	1072.6
30°	985.0	989.1	999.8	1016.6	1024.8
32.5°	933.2	938.6	950.1	968.2	978.3
35°	883.4	884.7	896.2	913.6	925.1
37.5°	826.8	830.2	840.9	860.4	866.5
40°	770.9	773.6	783.7	799.8	807.9
42.5°	711.0	715.7	726.5	738.6	748.0
45°	656.5	658.5	669.3	679.4	689.5
47.5°	599.3	601.2	610.7	621.5	625.5
50°	542.7	545.4	552.8	563.5	572.3
52.5°	490.1	491.5	494.9	507.0	511.0
55°	440.3	441.0	443.7	450.4	457.2
57.5°	393.2	392.5	391.9	397.9	404.0
60°	348.1	346.8	345.4	350.1	358.2
62.5°	308.4	307.0	301.6	307.0	313.7
65°	270.7	268.6	263.2	265.9	274.0
67.5°	241.0	237.0	228.2	231.6	237.6
70°	212.8	207.4	197.3	200.0	204.7
72.5°	187.9	179.7	171.1	171.7	176.4
75°	162.9	156.2	146.1	144.7	148.1
77.5°	139.4	134.0	123.2	121.2	123.9
80°	116.4	111.1	100.3	96.3	101.7
82.5°	91.6	89.5	77.4	74.7	76.8
85°	64.6	65.3	53.9	50.5	53.2
87.5°	33.0	34.4	27.6	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)