

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: P225806

Luminaire Tested: **22GR-LD5-32-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225806
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-LD5-32-F1-UNV-L935-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: 2777.8 lumens
Efficiency: N/A
Efficacy: 92.7 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

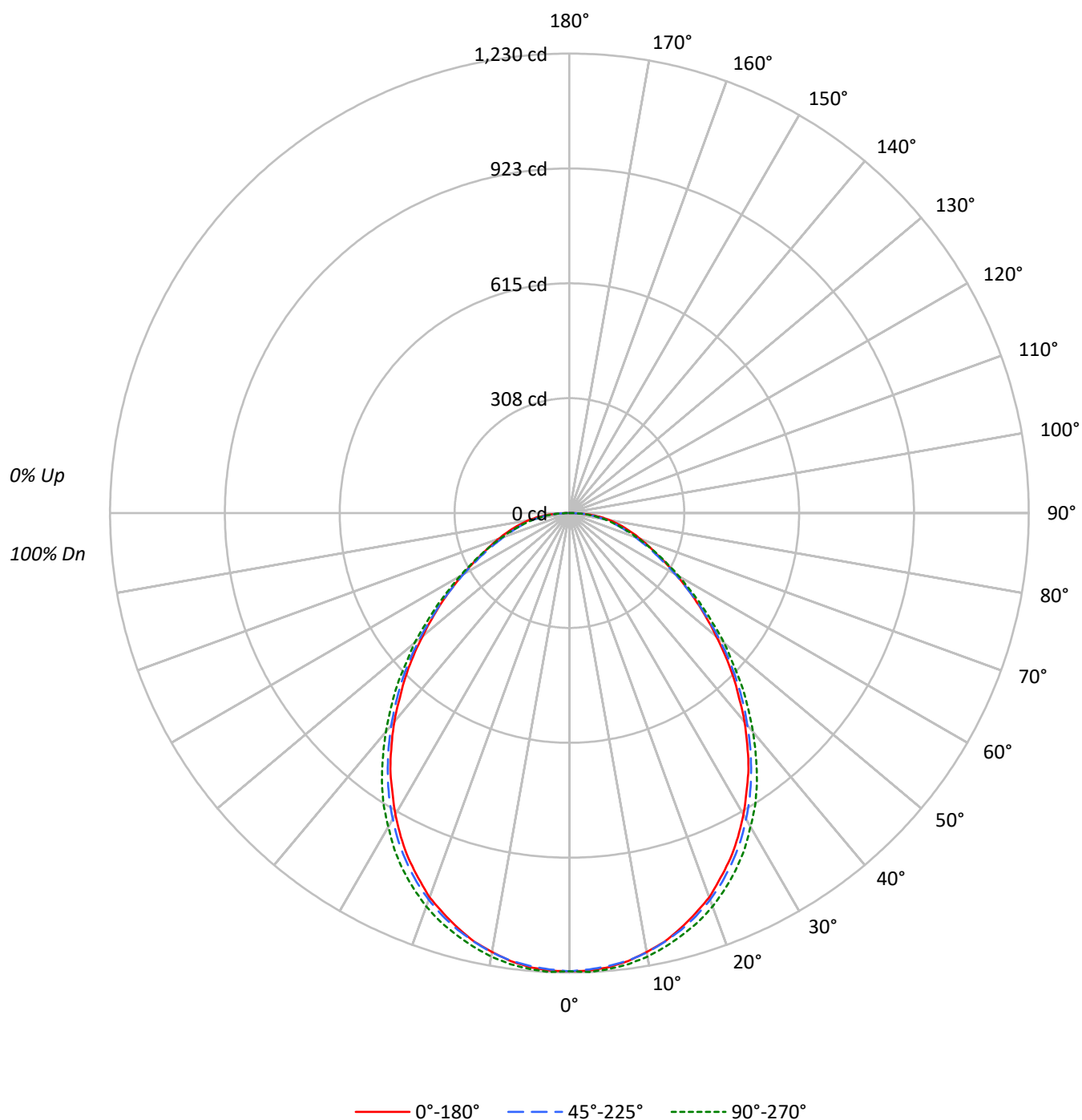
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225806

CATALOG NUMBER: 22GR-LD5-32-F1-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225806

CATALOG NUMBER: 22GR-LD5-32-F1-UNV-L935-CD1-U

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	74
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	83	72	64	58		70	63	58		67	62	57		65	60	56
5	78	66	58	51	76	65	57	51		63	56	51		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	45		56	49	44		54	48	44
7	68	55	46	40	66	54	46	40		52	45	40		51	45	40		50	44	39
8	63	50	42	36	62	49	42	36		48	41	36		47	41	36		46	40	36
9	59	46	38	33	58	46	38	33		45	38	33		43	37	33		42	37	32
10	56	43	35	30	54	42	35	30		41	35	30		40	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3928	3928	3928
5°	3922	3912	3938
10°	3880	3885	3920
15°	3815	3830	3876
20°	3730	3754	3819
25°	3604	3645	3726
30°	3447	3498	3586
35°	3268	3315	3422
40°	3050	3100	3196
45°	2813	2868	2955
50°	2558	2606	2698
55°	2327	2344	2415
60°	2110	2093	2171
65°	1941	1888	1965
70°	1886	1748	1814
75°	1908	1710	1735
80°	2032	1750	1774
85°	2249	1874	1848



TEST NUMBER: P225806

CATALOG NUMBER: 22GR-LD5-32-F1-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	4.2
10°-20°	326.0	11.7
20°-30°	475.3	17.1
30°-40°	531.3	19.1
40°-50°	488.6	17.6
50°-60°	378.5	13.6
60°-70°	253.8	9.1
70°-80°	151.8	5.5
80°-90°	56.8	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°	917.0	33.0
0°-40°	1448.3	52.1
0°-60°	2315.5	83.4
0°-90°	2777.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2777.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1220	1218	1217	1222	1225	116
15°	1151	1152	1155	1164	1169	324
25°	1020	1023	1032	1046	1054	469
35°	836	837	848	864	875	521
45°	621	623	633	643	652	478
55°	417	417	420	426	433	374
65°	256	254	249	252	259	258
75°	154	148	138	137	140	164
85°	61	62	51	48	50	64
90°	0	0	0	0	0	



TEST NUMBER: P225806

CATALOG NUMBER: 22GR-LD5-32-F1-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1225.8	1223.2	1222.6	1226.4	1229.6
5°	1220.0	1217.5	1216.9	1222.0	1225.1
7.5°	1209.2	1207.3	1207.9	1213.0	1217.5
10°	1193.3	1192.6	1194.6	1201.0	1205.4
12.5°	1175.5	1174.2	1176.1	1184.4	1188.8
15°	1150.6	1151.8	1155.1	1164.0	1169.1
17.5°	1123.2	1124.5	1130.2	1139.2	1147.4
20°	1094.5	1093.9	1101.5	1113.7	1120.6
22.5°	1057.0	1060.1	1069.0	1081.8	1088.8
25°	1020.0	1022.6	1031.5	1046.1	1054.4
27.5°	977.3	981.8	991.4	1005.4	1014.9
30°	932.1	935.9	946.0	962.0	969.7
32.5°	883.0	888.1	899.0	916.1	925.7
35°	835.9	837.2	848.0	864.5	875.3
37.5°	782.3	785.6	795.8	814.2	819.9
40°	729.5	732.0	741.5	756.8	764.5
42.5°	672.8	677.2	687.4	698.9	707.8
45°	621.2	623.0	633.2	642.9	652.4
47.5°	567.0	568.9	577.8	588.0	591.9
50°	513.5	516.0	523.1	533.3	541.5
52.5°	463.8	465.1	468.3	479.7	483.6
55°	416.7	417.3	419.8	426.2	432.6
57.5°	372.0	371.4	370.8	376.6	382.2
60°	329.4	328.1	326.8	331.3	338.9
62.5°	291.8	290.5	285.4	290.5	296.9
65°	256.1	254.2	249.1	251.7	259.3
67.5°	228.1	224.2	216.0	219.1	224.9
70°	201.4	196.3	186.7	189.2	193.7
72.5°	177.7	170.1	161.8	162.4	166.9
75°	154.2	147.8	138.2	136.9	140.2
77.5°	131.9	126.8	116.6	114.7	117.2
80°	110.2	105.1	94.9	91.1	96.2
82.5°	86.6	84.7	73.3	70.7	72.6
85°	61.2	61.8	51.0	47.8	50.3
87.5°	31.2	32.5	26.1	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)