

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: P225778

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225778
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-LD5-32-A-UNV-L935-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: 2769.3 lumens
Efficiency: N/A
Efficacy: 92.5 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

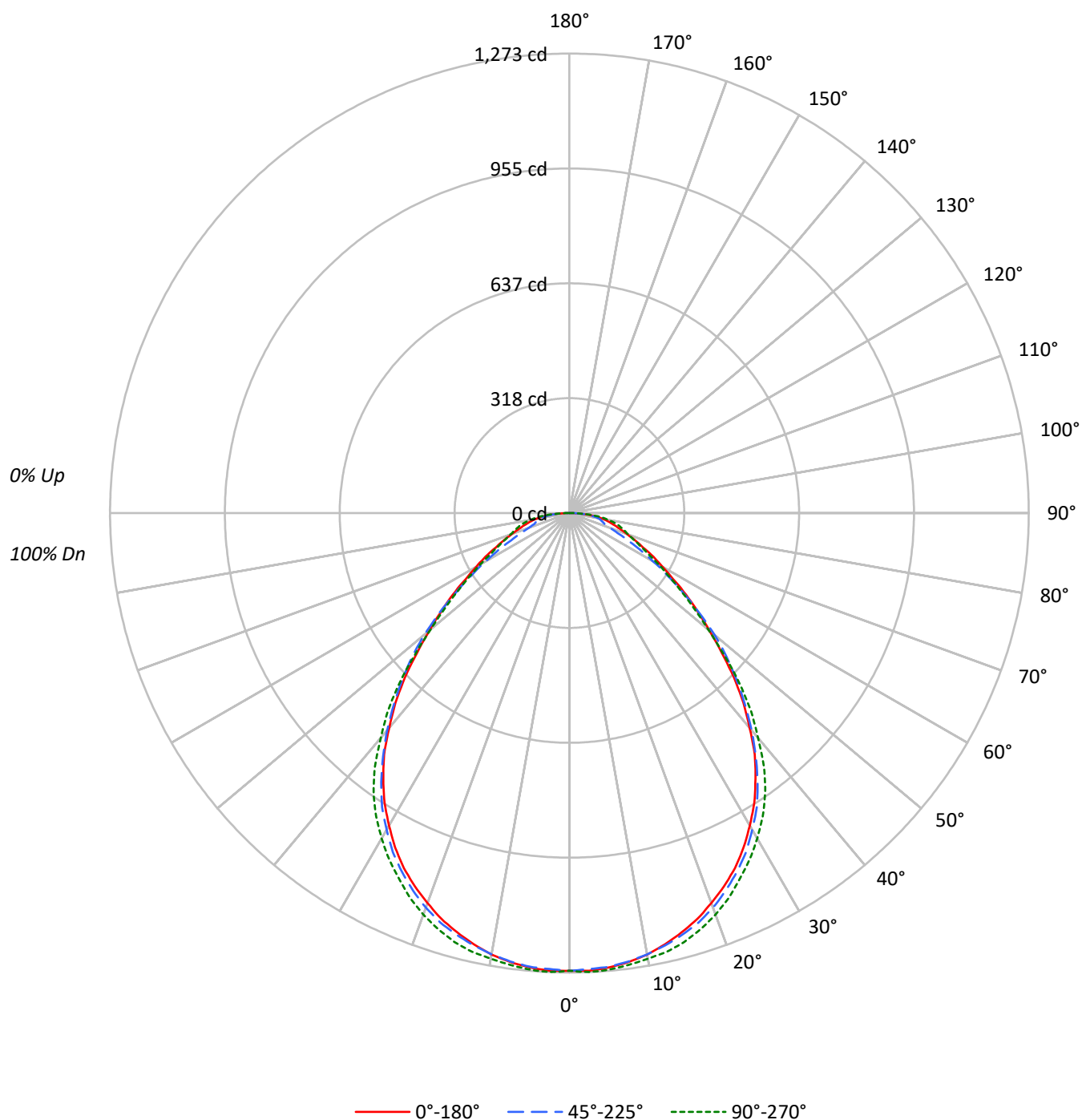
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4061	4061	4061
5°	4062	4056	4081
10°	4038	4036	4076
15°	3987	4008	4079
20°	3918	3964	4034
25°	3835	3878	3948
30°	3696	3746	3848
35°	3515	3555	3698
40°	3249	3284	3400
45°	2919	2971	3018
50°	2523	2613	2498
55°	2202	2145	2116
60°	1907	1717	1832
65°	1704	1348	1646
70°	1581	1117	1623
75°	1579	1180	1802
80°	1746	1486	2032
85°	1823	1613	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	4.3
10°-20°	341.8	12.3
20°-30°	505.5	18.3
30°-40°	570.5	20.6
40°-50°	502.9	18.2
50°-60°	345.0	12.5
60°-70°	203.6	7.4
70°-80°	127.0	4.6
80°-90°	53.0	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°	967.4	34.9
0°-40°	1537.8	55.5
0°-60°	2385.7	86.1
0°-90°	2769.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2769.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1264	1261	1262	1266	1270	120
15°	1202	1204	1209	1224	1230	339
25°	1085	1089	1097	1112	1117	498
35°	899	907	909	931	946	560
45°	644	648	656	660	666	495
55°	394	385	384	371	379	354
65°	225	198	178	206	217	227
75°	128	115	95	133	146	137
85°	50	46	44	57	62	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.2	1268.2	1268.2	1268.2	1268.2
2.5°	1268.9	1265.6	1264.4	1269.6	1272.8
5°	1263.7	1261.1	1261.8	1266.3	1269.6
7.5°	1254.7	1252.8	1252.8	1259.2	1262.4
10°	1241.8	1241.2	1241.2	1248.9	1253.4
12.5°	1223.7	1224.4	1227.0	1237.3	1245.1
15°	1202.5	1203.8	1209.0	1223.7	1230.2
17.5°	1179.3	1179.3	1189.7	1201.2	1209.0
20°	1149.6	1151.6	1163.2	1176.1	1183.8
22.5°	1119.4	1122.6	1132.3	1147.1	1154.2
25°	1085.2	1089.1	1097.4	1111.6	1117.4
27.5°	1045.2	1050.4	1059.4	1069.7	1082.0
30°	999.5	1007.2	1013.0	1027.2	1040.7
32.5°	953.1	960.2	966.6	981.5	997.0
35°	899.0	906.7	909.3	931.2	946.0
37.5°	843.5	846.8	848.0	870.0	886.1
40°	777.2	783.6	785.6	803.0	813.3
42.5°	713.4	716.0	719.9	732.7	744.9
45°	644.5	647.6	656.0	659.9	666.3
47.5°	572.2	581.9	591.6	579.4	580.0
50°	506.5	514.2	524.5	501.3	501.3
52.5°	447.9	451.8	452.4	433.1	436.9
55°	394.4	384.7	384.1	371.2	378.9
57.5°	340.9	328.0	323.5	319.6	328.7
60°	297.8	274.6	268.1	273.9	286.1
62.5°	262.3	232.6	220.4	235.2	246.2
65°	224.9	197.9	177.9	205.6	217.2
67.5°	195.9	170.2	144.3	183.7	192.0
70°	168.8	148.8	119.3	166.9	173.3
72.5°	147.0	131.5	103.1	150.8	158.5
75°	127.6	114.8	95.4	133.4	145.6
77.5°	112.1	97.9	88.9	115.3	130.1
80°	94.7	80.6	80.6	96.6	110.2
82.5°	74.7	63.2	65.1	78.6	88.3
85°	49.6	46.4	43.9	57.4	62.5
87.5°	25.2	25.8	23.2	29.7	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)