

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: P225805

Luminaire Tested: **22GR-LD5-28-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225805
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-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: 2463.3 lumens
Efficiency: N/A
Efficacy: 107.2 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

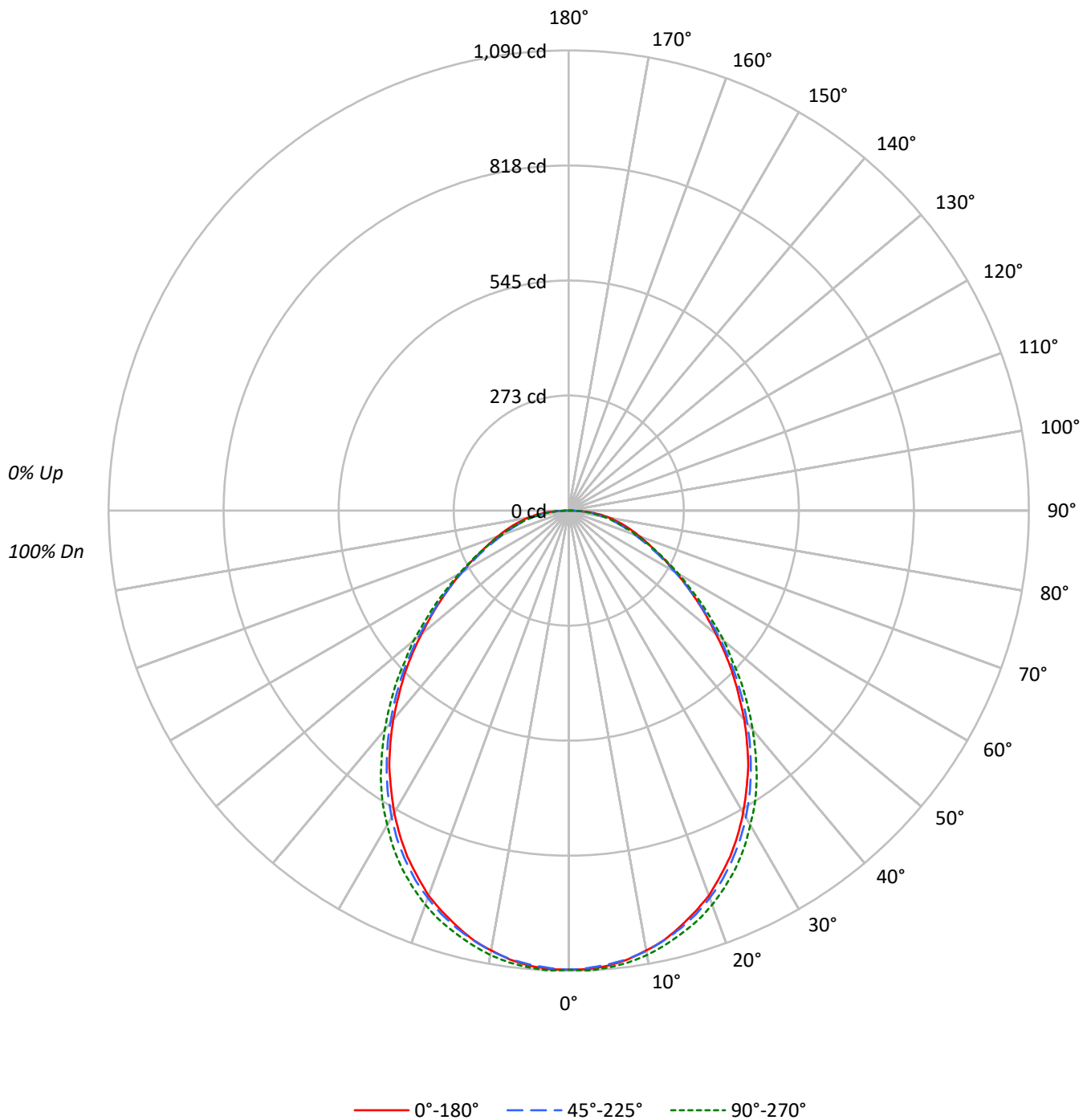
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3483	3483	3483
5°	3478	3469	3493
10°	3441	3445	3476
15°	3383	3396	3437
20°	3308	3329	3387
25°	3196	3232	3304
30°	3056	3103	3180
35°	2898	2940	3035
40°	2704	2749	2834
45°	2495	2543	2620
50°	2268	2311	2392
55°	2063	2079	2142
60°	1871	1856	1925
65°	1721	1674	1742
70°	1671	1550	1609
75°	1691	1517	1538
80°	1804	1551	1573
85°	1992	1661	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	4.2
10°-20°	289.1	11.7
20°-30°	421.5	17.1
30°-40°	471.1	19.1
40°-50°	433.3	17.6
50°-60°	335.7	13.6
60°-70°	225.0	9.1
70°-80°	134.6	5.5
80°-90°	50.3	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°	813.2	33.0
0°-40°	1284.3	52.1
0°-60°	2053.3	83.4
0°-90°	2463.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2463.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1082	1080	1079	1084	1086	103
15°	1020	1021	1024	1032	1037	287
25°	904	907	915	928	935	415
35°	741	742	752	767	776	462
45°	551	552	562	570	578	424
55°	370	370	372	378	384	332
65°	227	225	221	223	230	228
75°	137	131	123	122	124	145
85°	54	55	45	42	45	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.6	1087.6	1087.6	1087.6	1087.6
2.5°	1087.0	1084.8	1084.2	1087.6	1090.4
5°	1081.9	1079.7	1079.1	1083.6	1086.5
7.5°	1072.3	1070.6	1071.2	1075.7	1079.7
10°	1058.2	1057.7	1059.3	1065.0	1068.9
12.5°	1042.4	1041.2	1043.0	1050.3	1054.3
15°	1020.3	1021.4	1024.2	1032.2	1036.7
17.5°	996.0	997.1	1002.2	1010.1	1017.5
20°	970.6	970.0	976.8	987.5	993.7
22.5°	937.3	940.1	948.0	959.3	965.5
25°	904.5	906.8	914.7	927.7	935.0
27.5°	866.7	870.7	879.1	891.5	900.0
30°	826.5	829.9	839.0	853.1	859.9
32.5°	783.0	787.5	797.1	812.4	820.9
35°	741.2	742.4	752.0	766.7	776.3
37.5°	693.8	696.6	705.7	722.0	727.1
40°	646.8	649.1	657.6	671.2	678.0
42.5°	596.6	600.5	609.6	619.7	627.6
45°	550.8	552.5	561.6	570.0	578.5
47.5°	502.9	504.5	512.5	521.5	524.9
50°	455.3	457.6	463.8	472.9	480.2
52.5°	411.3	412.4	415.2	425.4	428.8
55°	369.5	370.1	372.3	378.0	383.6
57.5°	330.0	329.4	328.8	333.9	339.0
60°	292.1	291.0	289.8	293.8	300.6
62.5°	258.7	257.6	253.1	257.6	263.2
65°	227.1	225.4	220.9	223.1	229.9
67.5°	202.3	198.9	191.5	194.3	199.4
70°	178.5	174.0	165.5	167.8	171.8
72.5°	157.6	150.9	143.5	144.1	148.0
75°	136.7	131.1	122.6	121.5	124.3
77.5°	117.0	112.5	103.4	101.7	104.0
80°	97.8	93.2	84.1	80.8	85.3
82.5°	76.8	75.1	64.9	62.7	64.4
85°	54.2	54.8	45.2	42.3	44.6
87.5°	27.7	28.8	23.2	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)