

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: P225775

Luminaire Tested: **22GR-LD5-20-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225775
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-LD5-20-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: 1752.7 lumens
Efficiency: N/A
Efficacy: 108.7 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

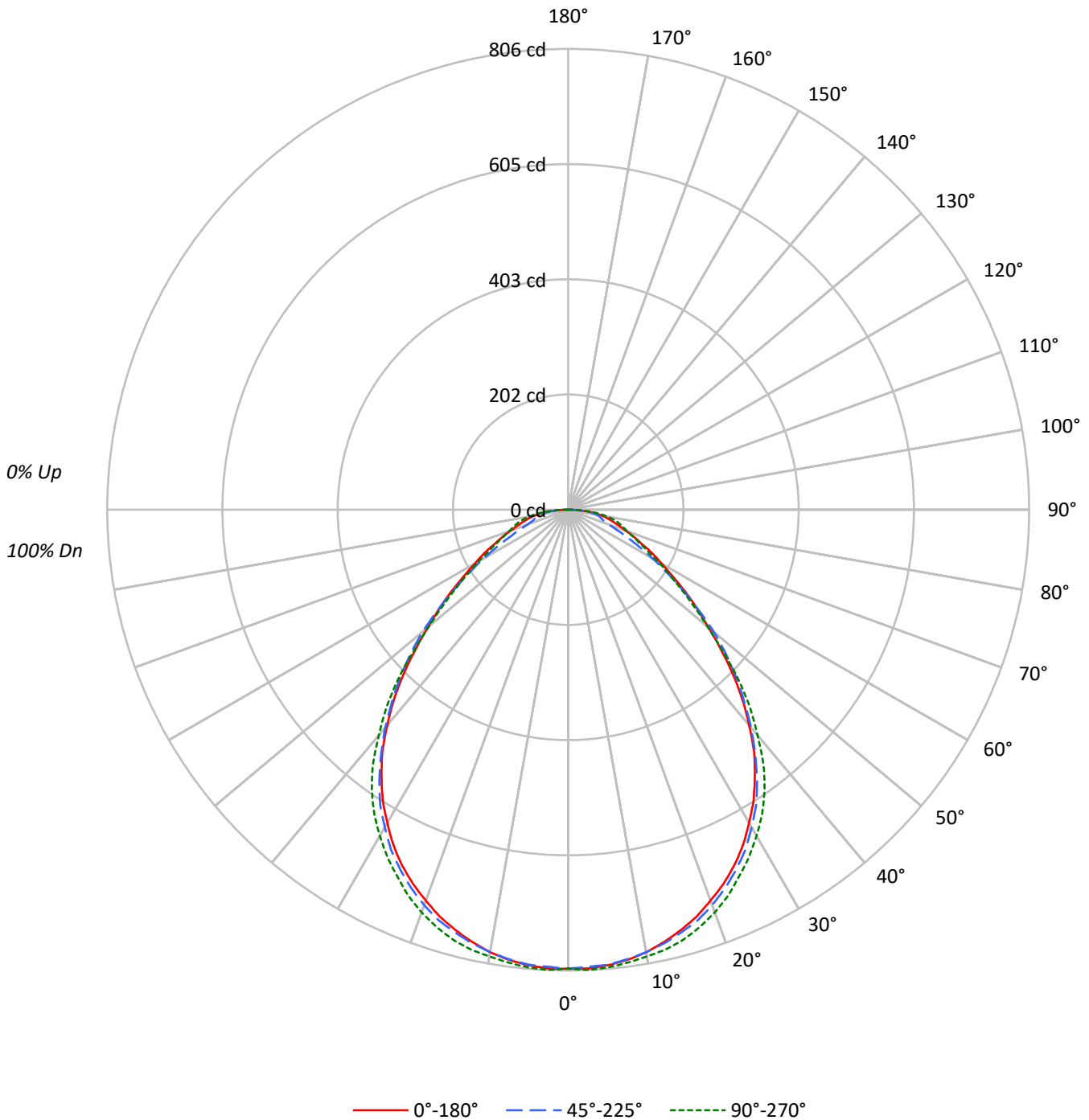
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2571	2571	2571
5°	2571	2567	2583
10°	2556	2555	2580
15°	2523	2537	2581
20°	2480	2509	2554
25°	2427	2454	2499
30°	2339	2371	2436
35°	2225	2250	2341
40°	2056	2079	2152
45°	1847	1880	1910
50°	1597	1654	1581
55°	1394	1357	1339
60°	1207	1087	1159
65°	1079	852	1041
70°	1000	707	1027
75°	1000	747	1140
80°	1105	941	1287
85°	1154	1018	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	4.3
10°-20°	216.3	12.3
20°-30°	320.0	18.3
30°-40°	361.1	20.6
40°-50°	318.3	18.2
50°-60°	218.3	12.5
60°-70°	128.8	7.4
70°-80°	80.4	4.6
80°-90°	33.5	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°	612.3	34.9
0°-40°	973.3	55.5
0°-60°	1510.0	86.1
0°-90°	1752.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	800	798	799	802	804	76
15°	761	762	765	774	779	215
25°	687	689	695	704	707	315
35°	569	574	576	589	599	355
45°	408	410	415	418	422	313
55°	250	244	243	235	240	224
65°	142	125	112	130	137	143
75°	81	73	60	84	92	87
85°	31	29	28	36	40	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.7	802.7	802.7	802.7	802.7
2.5°	803.1	801.0	800.2	803.5	805.5
5°	799.8	798.2	798.6	801.5	803.5
7.5°	794.1	792.9	792.9	797.0	799.0
10°	785.9	785.6	785.6	790.4	793.3
12.5°	774.5	774.9	776.6	783.1	787.9
15°	761.1	761.9	765.2	774.5	778.6
17.5°	746.4	746.4	752.9	760.2	765.2
20°	727.6	728.9	736.2	744.3	749.3
22.5°	708.5	710.5	716.6	726.0	730.5
25°	686.8	689.3	694.6	703.5	707.2
27.5°	661.6	664.8	670.6	677.0	684.8
30°	632.6	637.5	641.2	650.2	658.7
32.5°	603.2	607.8	611.8	621.2	631.0
35°	569.0	573.8	575.5	589.4	598.7
37.5°	533.9	535.9	536.8	550.6	560.8
40°	491.9	496.0	497.2	508.2	514.8
42.5°	451.5	453.1	455.6	463.8	471.5
45°	407.8	409.9	415.2	417.7	421.8
47.5°	362.2	368.3	374.4	366.7	367.1
50°	320.6	325.5	332.0	317.3	317.3
52.5°	283.5	285.9	286.3	274.1	276.5
55°	249.6	243.5	243.1	234.9	239.8
57.5°	215.7	207.6	204.8	202.3	208.0
60°	188.4	173.7	169.7	173.3	181.0
62.5°	166.0	147.2	139.5	148.8	155.8
65°	142.4	125.2	112.5	130.1	137.4
67.5°	124.0	107.7	91.4	116.3	121.6
70°	106.8	94.2	75.5	105.7	109.7
72.5°	93.0	83.2	65.3	95.5	100.3
75°	80.8	72.6	60.4	84.4	92.1
77.5°	71.0	62.0	56.3	73.0	82.4
80°	59.9	51.0	51.0	61.2	69.8
82.5°	47.3	39.9	41.2	49.7	55.8
85°	31.4	29.3	27.7	36.3	39.5
87.5°	15.9	16.3	14.7	18.8	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)