

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: P225768

Luminaire Tested: **22GR-LD5-20-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225768
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-L930-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: 1662.2 lumens
Efficiency: N/A
Efficacy: 103.0 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

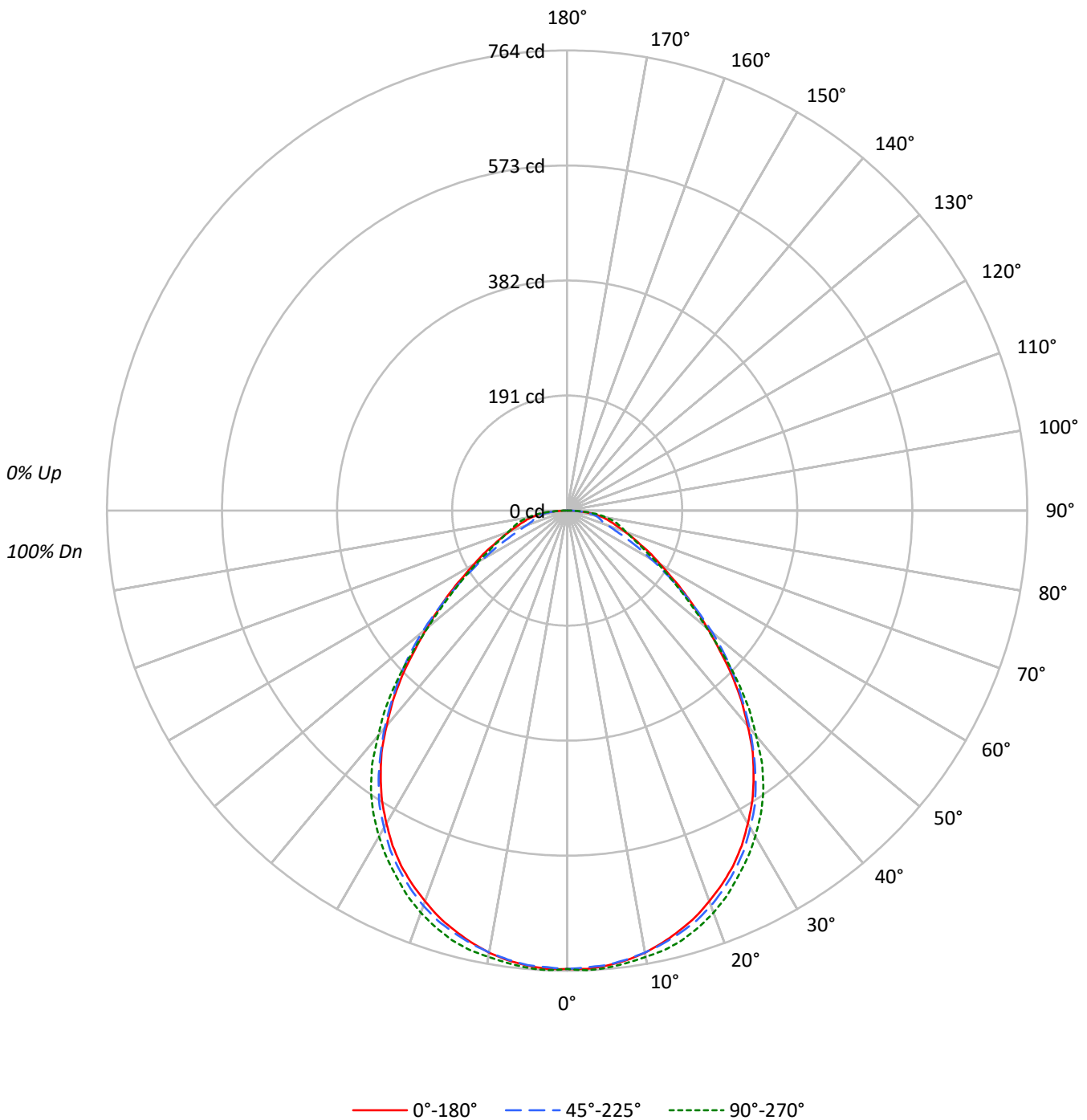
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2438	2438	2438
5°	2438	2435	2449
10°	2424	2423	2446
15°	2393	2406	2448
20°	2352	2379	2421
25°	2301	2328	2370
30°	2218	2248	2310
35°	2110	2134	2220
40°	1950	1971	2041
45°	1752	1784	1811
50°	1515	1569	1499
55°	1322	1287	1270
60°	1145	1031	1100
65°	1023	809	988
70°	949	670	975
75°	948	708	1081
80°	1048	893	1221
85°	1095	966	1382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	4.3
10°-20°	205.2	12.3
20°-30°	303.4	18.3
30°-40°	342.4	20.6
40°-50°	301.9	18.2
50°-60°	207.1	12.5
60°-70°	122.2	7.4
70°-80°	76.2	4.6
80°-90°	31.8	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°	580.6	34.9
0°-40°	923.0	55.5
0°-60°	1431.9	86.1
0°-90°	1662.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1662.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	758	757	757	760	762	72
15°	722	722	726	734	738	203
25°	651	654	659	667	671	299
35°	540	544	546	559	568	336
45°	387	389	394	396	400	297
55°	237	231	230	223	228	212
65°	135	119	107	123	130	136
75°	77	69	57	80	87	82
85°	30	28	26	34	38	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.2	761.2	761.2	761.2	761.2
2.5°	761.6	759.6	758.9	761.9	763.9
5°	758.5	756.9	757.4	760.1	761.9
7.5°	753.1	751.9	751.9	755.8	757.7
10°	745.4	745.0	745.0	749.6	752.3
12.5°	734.5	734.9	736.4	742.7	747.3
15°	721.8	722.5	725.6	734.5	738.4
17.5°	707.8	707.8	714.0	720.9	725.6
20°	690.0	691.2	698.1	705.9	710.5
22.5°	671.8	673.8	679.6	688.5	692.7
25°	651.3	653.7	658.7	667.2	670.7
27.5°	627.4	630.5	635.9	642.1	649.4
30°	599.9	604.6	608.0	616.6	624.7
32.5°	572.0	576.3	580.2	589.1	598.4
35°	539.6	544.2	545.8	558.9	567.8
37.5°	506.3	508.2	509.0	522.2	531.9
40°	466.5	470.4	471.5	481.9	488.1
42.5°	428.2	429.8	432.1	439.8	447.1
45°	386.8	388.8	393.8	396.1	399.9
47.5°	343.5	349.2	355.1	347.8	348.1
50°	304.1	308.6	314.9	300.9	300.9
52.5°	268.8	271.2	271.5	259.9	262.2
55°	236.7	230.9	230.5	222.8	227.5
57.5°	204.6	196.9	194.2	191.9	197.3
60°	178.7	164.7	160.9	164.4	171.7
62.5°	157.4	139.6	132.3	141.2	147.8
65°	135.0	118.7	106.8	123.4	130.4
67.5°	117.6	102.1	86.7	110.2	115.3
70°	101.4	89.4	71.6	100.2	104.1
72.5°	88.1	78.9	61.9	90.5	95.1
75°	76.6	68.9	57.2	80.0	87.4
77.5°	67.3	58.8	53.4	69.2	78.1
80°	56.8	48.4	48.4	58.1	66.2
82.5°	44.9	37.9	39.0	47.2	53.0
85°	29.8	27.9	26.3	34.4	37.6
87.5°	15.1	15.5	13.9	17.8	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)