

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: P225769

Luminaire Tested: **22GR-LD5-24-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225769
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-LD5-24-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: 1976.2 lumens
Efficiency: N/A
Efficacy: 102.8 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

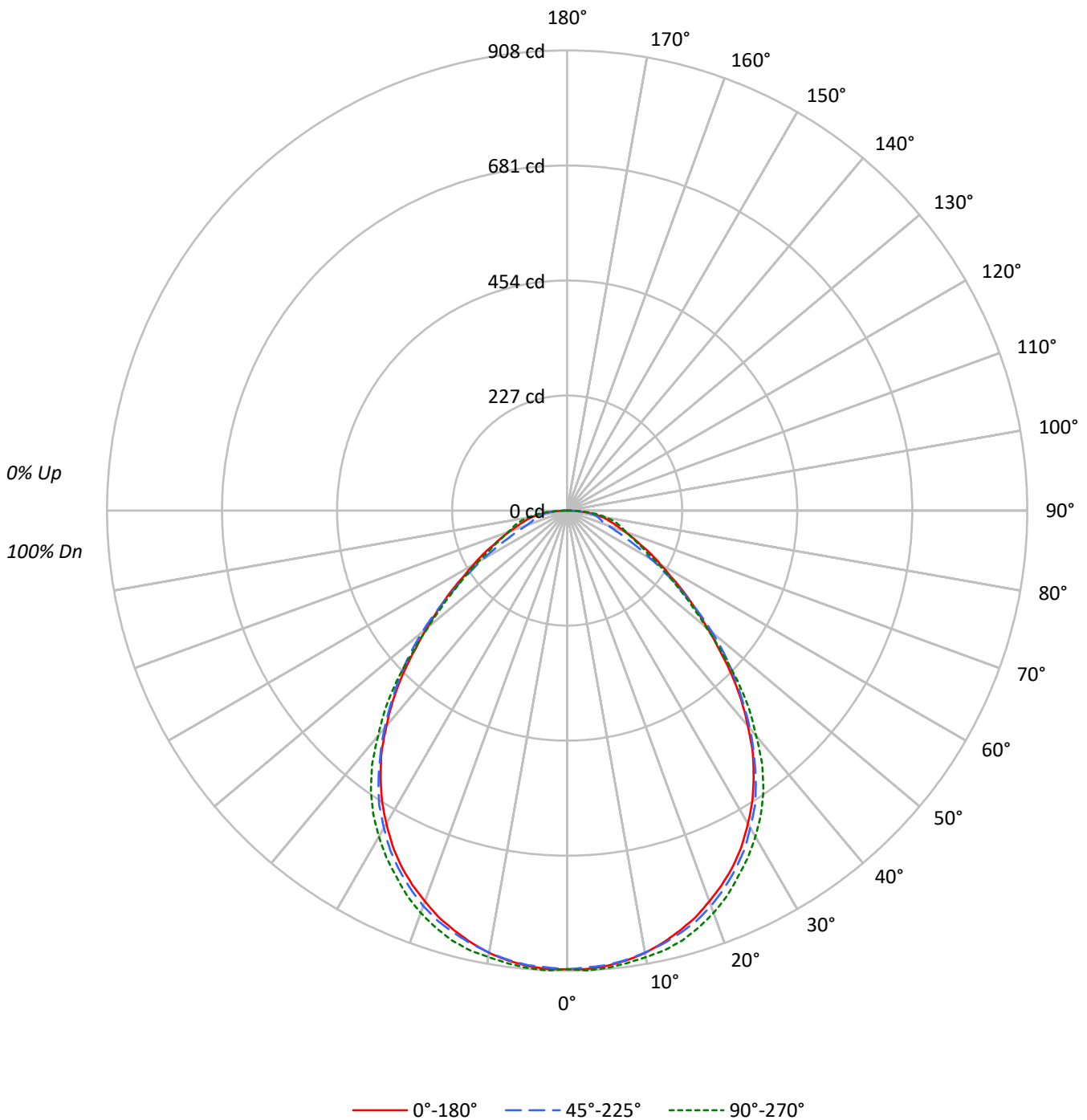
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2898	2898	2898
5°	2899	2895	2912
10°	2882	2880	2909
15°	2845	2860	2911
20°	2796	2829	2879
25°	2736	2767	2818
30°	2637	2673	2746
35°	2508	2537	2639
40°	2319	2344	2426
45°	2083	2120	2154
50°	1801	1865	1783
55°	1571	1530	1510
60°	1361	1225	1308
65°	1216	962	1175
70°	1128	797	1158
75°	1126	843	1286
80°	1247	1060	1450
85°	1301	1146	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	4.3
10°-20°	243.9	12.3
20°-30°	360.8	18.3
30°-40°	407.1	20.6
40°-50°	358.9	18.2
50°-60°	246.2	12.5
60°-70°	145.3	7.4
70°-80°	90.7	4.6
80°-90°	37.8	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°	690.3	34.9
0°-40°	1097.4	55.5
0°-60°	1702.5	86.1
0°-90°	1976.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	902	900	900	904	906	86
15°	858	859	863	873	878	242
25°	774	777	783	793	797	356
35°	642	647	649	664	675	400
45°	460	462	468	471	476	353
55°	281	274	274	265	270	252
65°	160	141	127	147	155	162
75°	91	82	68	95	104	98
85°	35	33	31	41	45	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	905.5	903.1	902.2	905.9	908.2
5°	901.8	900.0	900.4	903.6	905.9
7.5°	895.4	894.0	894.0	898.6	900.9
10°	886.2	885.7	885.7	891.3	894.5
12.5°	873.3	873.8	875.6	883.0	888.5
15°	858.1	859.0	862.7	873.3	877.9
17.5°	841.6	841.6	848.9	857.2	862.7
20°	820.4	821.8	830.1	839.3	844.8
22.5°	798.8	801.1	808.0	818.6	823.6
25°	774.4	777.2	783.2	793.3	797.4
27.5°	745.9	749.6	756.0	763.4	772.1
30°	713.2	718.8	722.9	733.0	742.7
32.5°	680.2	685.2	689.8	700.4	711.4
35°	641.5	647.1	648.9	664.5	675.1
37.5°	602.0	604.3	605.2	620.8	632.3
40°	554.6	559.2	560.6	573.0	580.4
42.5°	509.1	510.9	513.6	522.9	531.6
45°	459.9	462.2	468.1	470.9	475.5
47.5°	408.4	415.2	422.1	413.4	413.9
50°	361.5	367.0	374.3	357.8	357.8
52.5°	319.6	322.3	322.8	309.1	311.8
55°	281.4	274.5	274.0	264.9	270.4
57.5°	243.3	234.1	230.8	228.1	234.5
60°	212.5	195.9	191.3	195.4	204.2
62.5°	187.2	166.0	157.3	167.9	175.6
65°	160.5	141.2	126.9	146.7	155.0
67.5°	139.8	121.4	103.0	131.0	137.0
70°	120.5	106.2	85.1	119.1	123.7
72.5°	104.9	93.8	73.6	107.6	113.2
75°	91.0	81.8	68.1	95.2	103.9
77.5°	80.0	69.9	63.5	82.3	92.9
80°	67.6	57.5	57.5	69.0	78.6
82.5°	53.4	45.1	46.4	56.1	63.0
85°	35.4	33.1	31.2	40.9	44.6
87.5°	18.0	18.4	16.6	21.2	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)