

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: P225783

Luminaire Tested: **22GR-LD5-24-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225783
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-L940-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: 2144.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

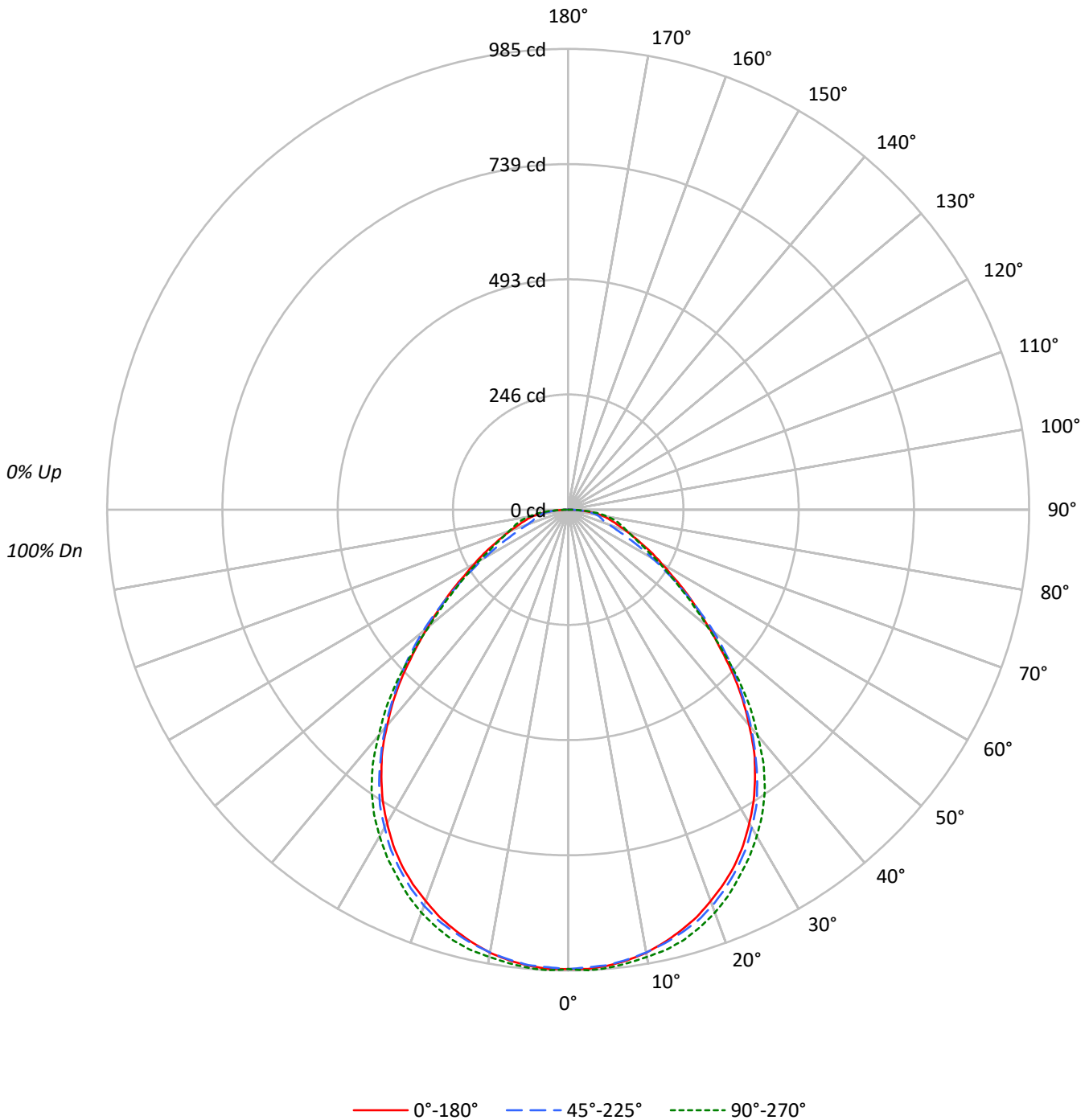
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3145	3145	3145
5°	3145	3140	3160
10°	3126	3125	3156
15°	3087	3103	3158
20°	3033	3069	3123
25°	2969	3002	3057
30°	2861	2900	2979
35°	2721	2752	2863
40°	2515	2543	2632
45°	2260	2300	2337
50°	1954	2023	1934
55°	1705	1660	1638
60°	1476	1329	1419
65°	1320	1043	1274
70°	1224	864	1257
75°	1222	914	1394
80°	1354	1151	1573
85°	1411	1246	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	4.3
10°-20°	264.6	12.3
20°-30°	391.4	18.3
30°-40°	441.7	20.6
40°-50°	389.3	18.2
50°-60°	267.1	12.5
60°-70°	157.6	7.4
70°-80°	98.4	4.6
80°-90°	41.0	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°	748.9	34.9
0°-40°	1190.6	55.5
0°-60°	1847.0	86.1
0°-90°	2144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	978	976	977	980	983	93
15°	931	932	936	948	952	262
25°	840	843	850	861	865	386
35°	696	702	704	721	732	434
45°	499	501	508	511	516	383
55°	305	298	297	287	293	274
65°	174	153	138	159	168	175
75°	99	89	74	103	113	106
85°	38	36	34	44	48	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.9	981.9	981.9	981.9	981.9
2.5°	982.4	979.9	978.9	982.9	985.4
5°	978.3	976.4	976.9	980.4	982.9
7.5°	971.4	969.9	969.9	974.9	977.4
10°	961.4	960.9	960.9	966.9	970.4
12.5°	947.5	948.0	950.0	958.0	963.9
15°	931.0	932.0	935.9	947.5	952.4
17.5°	913.0	913.0	921.0	930.0	935.9
20°	890.1	891.6	900.5	910.5	916.5
22.5°	866.6	869.1	876.6	888.0	893.5
25°	840.1	843.1	849.7	860.6	865.2
27.5°	809.3	813.2	820.2	828.2	837.6
30°	773.8	779.8	784.3	795.2	805.7
32.5°	737.9	743.4	748.4	759.8	771.8
35°	696.0	701.9	704.0	720.9	732.4
37.5°	653.1	655.6	656.6	673.6	686.0
40°	601.7	606.6	608.2	621.6	629.6
42.5°	552.3	554.3	557.3	567.3	576.7
45°	498.9	501.4	507.9	510.9	515.9
47.5°	443.1	450.6	458.0	448.5	449.0
50°	392.2	398.1	406.1	388.1	388.1
52.5°	346.8	349.8	350.3	335.3	338.2
55°	305.3	297.8	297.4	287.4	293.3
57.5°	263.9	254.0	250.4	247.4	254.5
60°	230.5	212.5	207.5	212.1	221.5
62.5°	203.0	180.1	170.6	182.1	190.6
65°	174.2	153.2	137.7	159.2	168.1
67.5°	151.7	131.8	111.8	142.2	148.7
70°	130.7	115.2	92.3	129.3	134.2
72.5°	113.8	101.7	79.8	116.8	122.7
75°	98.8	88.8	73.9	103.3	112.7
77.5°	86.8	75.9	68.9	89.3	100.8
80°	73.4	62.4	62.4	74.8	85.3
82.5°	57.9	48.9	50.4	60.9	68.4
85°	38.4	35.9	33.9	44.4	48.4
87.5°	19.4	20.0	18.0	23.0	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)