

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: P225790

Luminaire Tested: **22GR-LD5-24-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225790
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-L950-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: 2268.6 lumens
Efficiency: N/A
Efficacy: 118.0 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

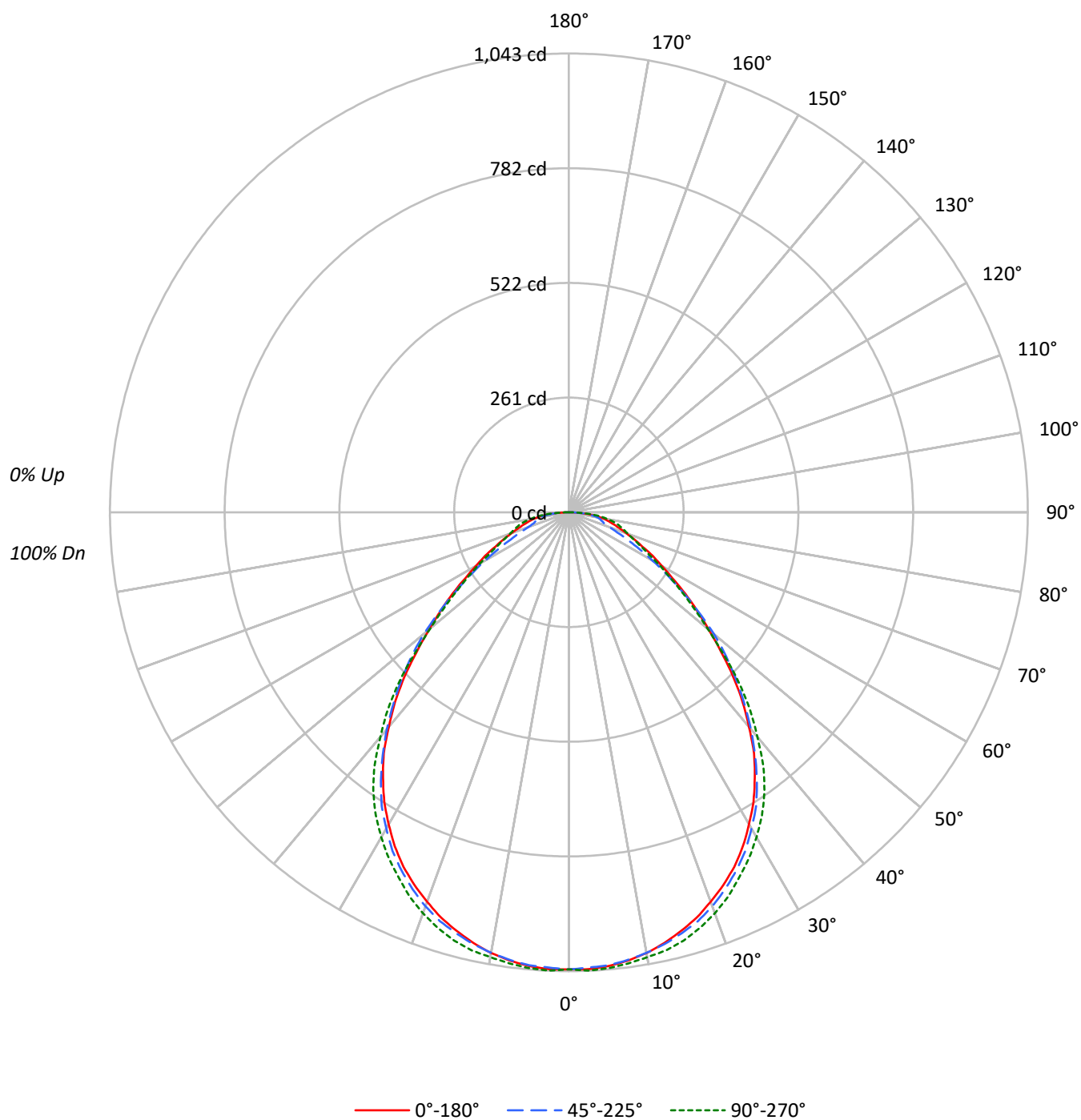
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3327	3327	3327
5°	3328	3323	3343
10°	3308	3306	3339
15°	3266	3284	3341
20°	3210	3247	3305
25°	3141	3177	3235
30°	3028	3069	3153
35°	2879	2912	3030
40°	2661	2691	2785
45°	2391	2434	2472
50°	2068	2141	2046
55°	1803	1757	1733
60°	1562	1407	1501
65°	1397	1104	1348
70°	1295	914	1331
75°	1294	968	1476
80°	1431	1217	1665
85°	1495	1319	1881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	4.3
10°-20°	280.0	12.3
20°-30°	414.1	18.3
30°-40°	467.3	20.6
40°-50°	412.0	18.2
50°-60°	282.6	12.5
60°-70°	166.8	7.4
70°-80°	104.1	4.6
80°-90°	43.4	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°	792.5	34.9
0°-40°	1259.8	55.5
0°-60°	1954.4	86.1
0°-90°	2268.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1035	1033	1034	1037	1040	98
15°	985	986	990	1002	1008	278
25°	889	892	899	911	916	408
35°	736	743	745	763	775	459
45°	528	530	537	541	546	406
55°	323	315	315	304	310	290
65°	184	162	146	168	178	186
75°	105	94	78	109	119	112
85°	41	38	36	47	51	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.9	1038.9	1038.9	1038.9	1038.9
2.5°	1039.5	1036.9	1035.8	1040.0	1042.7
5°	1035.2	1033.1	1033.7	1037.4	1040.0
7.5°	1027.8	1026.3	1026.3	1031.6	1034.2
10°	1017.3	1016.7	1016.7	1023.1	1026.8
12.5°	1002.5	1003.1	1005.2	1013.6	1019.9
15°	985.1	986.2	990.4	1002.5	1007.8
17.5°	966.1	966.1	974.5	984.1	990.4
20°	941.8	943.4	952.9	963.4	969.8
22.5°	917.0	919.6	927.6	939.7	945.5
25°	889.0	892.2	899.1	910.6	915.5
27.5°	856.3	860.5	867.9	876.3	886.3
30°	818.8	825.1	829.9	841.5	852.6
32.5°	780.8	786.6	791.9	804.0	816.7
35°	736.5	742.7	744.9	762.9	775.0
37.5°	691.1	693.7	694.8	712.7	725.9
40°	636.6	641.9	643.6	657.7	666.2
42.5°	584.4	586.5	589.7	600.2	610.2
45°	527.9	530.5	537.4	540.6	545.9
47.5°	468.8	476.7	484.7	474.6	475.1
50°	415.0	421.2	429.7	410.7	410.7
52.5°	366.9	370.1	370.6	354.8	357.9
55°	323.0	315.1	314.7	304.1	310.4
57.5°	279.3	268.7	265.0	261.8	269.3
60°	243.9	224.9	219.6	224.4	234.4
62.5°	214.9	190.6	180.5	192.6	201.7
65°	184.3	162.1	145.7	168.4	177.9
67.5°	160.5	139.4	118.3	150.4	157.3
70°	138.3	121.9	97.6	136.8	142.1
72.5°	120.4	107.7	84.4	123.6	129.9
75°	104.6	94.0	78.2	109.3	119.3
77.5°	91.8	80.3	72.9	94.5	106.7
80°	77.6	66.0	66.0	79.2	90.3
82.5°	61.2	51.8	53.3	64.4	72.3
85°	40.7	38.0	35.9	47.0	51.2
87.5°	20.6	21.1	19.0	24.3	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)