

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: P225734

Luminaire Tested: **22GR-LD5-24-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A125-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264.1 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

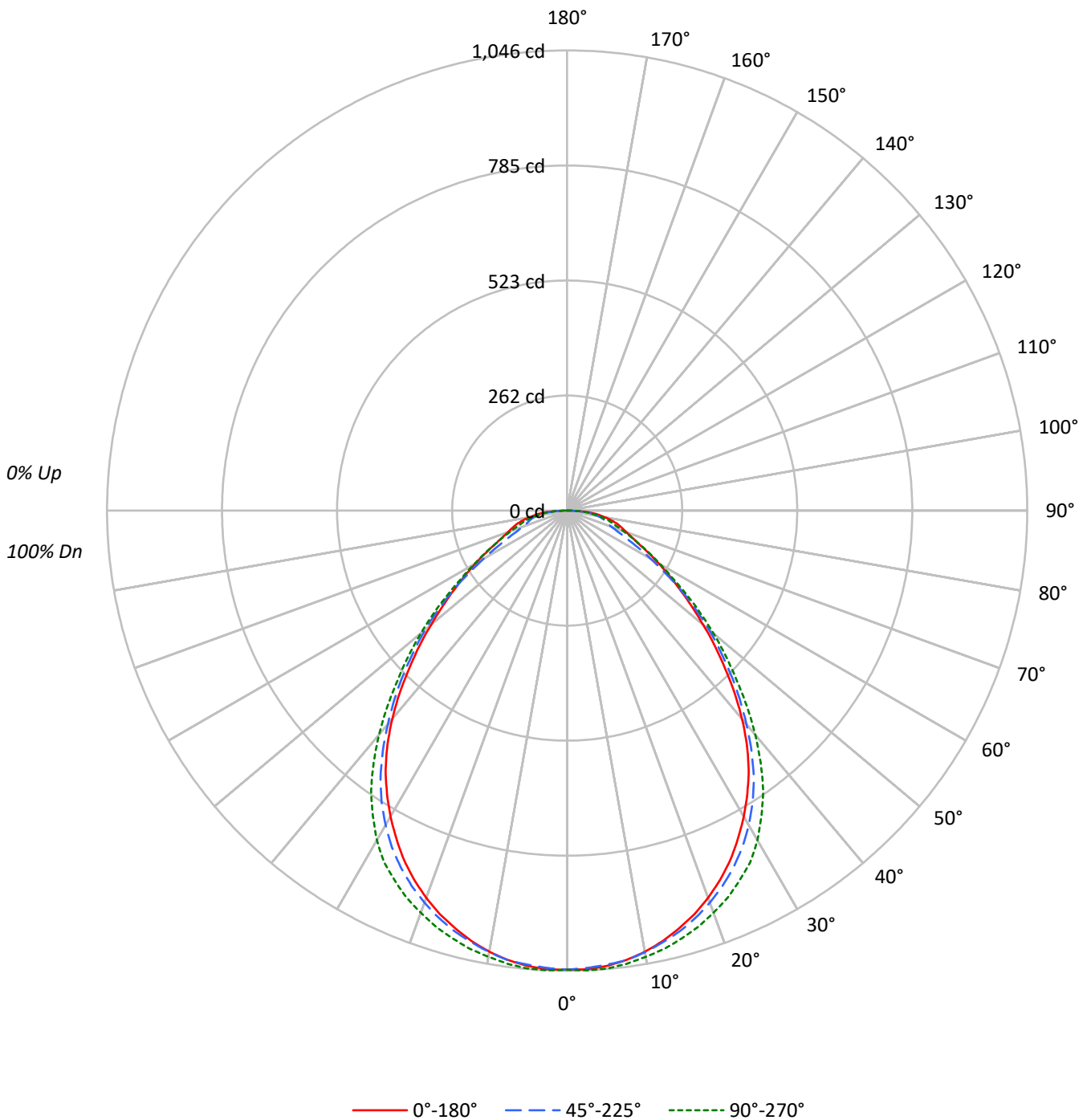
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3342	3342	3342
5°	3340	3331	3358
10°	3311	3315	3349
15°	3259	3282	3337
20°	3192	3233	3316
25°	3098	3162	3277
30°	2969	3053	3199
35°	2813	2891	3038
40°	2587	2650	2783
45°	2298	2381	2467
50°	2007	2098	2162
55°	1745	1769	1833
60°	1535	1407	1565
65°	1364	1124	1372
70°	1340	999	1265
75°	1463	1098	1294
80°	1606	1304	1383
85°	1918	1510	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	4.4
10°-20°	279.7	12.4
20°-30°	412.9	18.2
30°-40°	462.1	20.4
40°-50°	405.8	17.9
50°-60°	287.1	12.7
60°-70°	167.1	7.4
70°-80°	104.2	4.6
80°-90°	46.6	2.1
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°	791.3	34.9
0°-40°	1253.3	55.4
0°-60°	1946.2	86.0
0°-90°	2264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1039	1036	1036	1042	1045	99
15°	983	985	990	1000	1007	277
25°	877	880	895	916	928	403
35°	720	723	740	762	777	447
45°	507	513	526	538	545	392
55°	312	319	317	322	328	282
65°	180	166	148	162	181	183
75°	118	102	89	91	105	123
85°	52	54	41	40	42	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1043.6	1041.5	1040.5	1044.1	1046.2
5°	1038.9	1036.2	1036.2	1041.5	1044.7
7.5°	1030.4	1027.8	1030.9	1035.7	1038.9
10°	1018.3	1017.2	1019.4	1025.7	1029.9
12.5°	1002.5	1003.0	1005.1	1015.1	1020.4
15°	982.9	985.1	989.8	1000.4	1006.6
17.5°	961.8	963.4	970.8	982.9	991.9
20°	936.5	939.7	948.6	964.0	972.9
22.5°	908.5	912.2	923.3	941.8	952.9
25°	876.8	880.5	894.8	915.9	927.5
27.5°	840.9	846.8	862.6	885.8	901.6
30°	802.9	807.6	825.6	852.0	865.2
32.5°	762.3	768.0	785.0	810.3	821.9
35°	719.5	722.6	739.6	761.8	777.0
37.5°	670.9	672.5	688.3	709.0	722.6
40°	618.7	619.7	634.0	653.6	665.7
42.5°	564.3	564.8	580.1	595.0	605.5
45°	507.3	513.1	525.8	538.4	544.8
47.5°	456.1	460.3	471.9	483.0	488.9
50°	402.8	413.3	421.2	427.1	433.9
52.5°	356.8	365.8	367.9	374.8	380.6
55°	312.5	318.9	316.8	322.5	328.3
57.5°	275.0	271.8	265.0	275.0	282.4
60°	239.7	231.2	219.6	233.3	244.4
62.5°	208.0	194.3	180.0	193.7	212.2
65°	180.0	165.7	148.3	161.5	181.1
67.5°	158.9	144.1	123.5	136.7	156.2
70°	143.1	127.8	106.7	117.8	135.1
72.5°	130.4	114.0	95.6	102.9	117.8
75°	118.2	101.9	88.7	90.8	104.6
77.5°	104.0	91.8	81.3	80.3	90.8
80°	87.1	83.4	70.7	69.2	75.0
82.5°	71.8	70.3	58.1	56.5	58.6
85°	52.2	54.3	41.1	40.1	42.2
87.5°	27.5	30.1	21.7	22.7	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)