

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: P234140

Luminaire Tested: **22GR-LD5-90-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234140
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-LD5-90-A125-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8955.9 lumens
Efficiency: N/A
Efficacy: 104.2 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

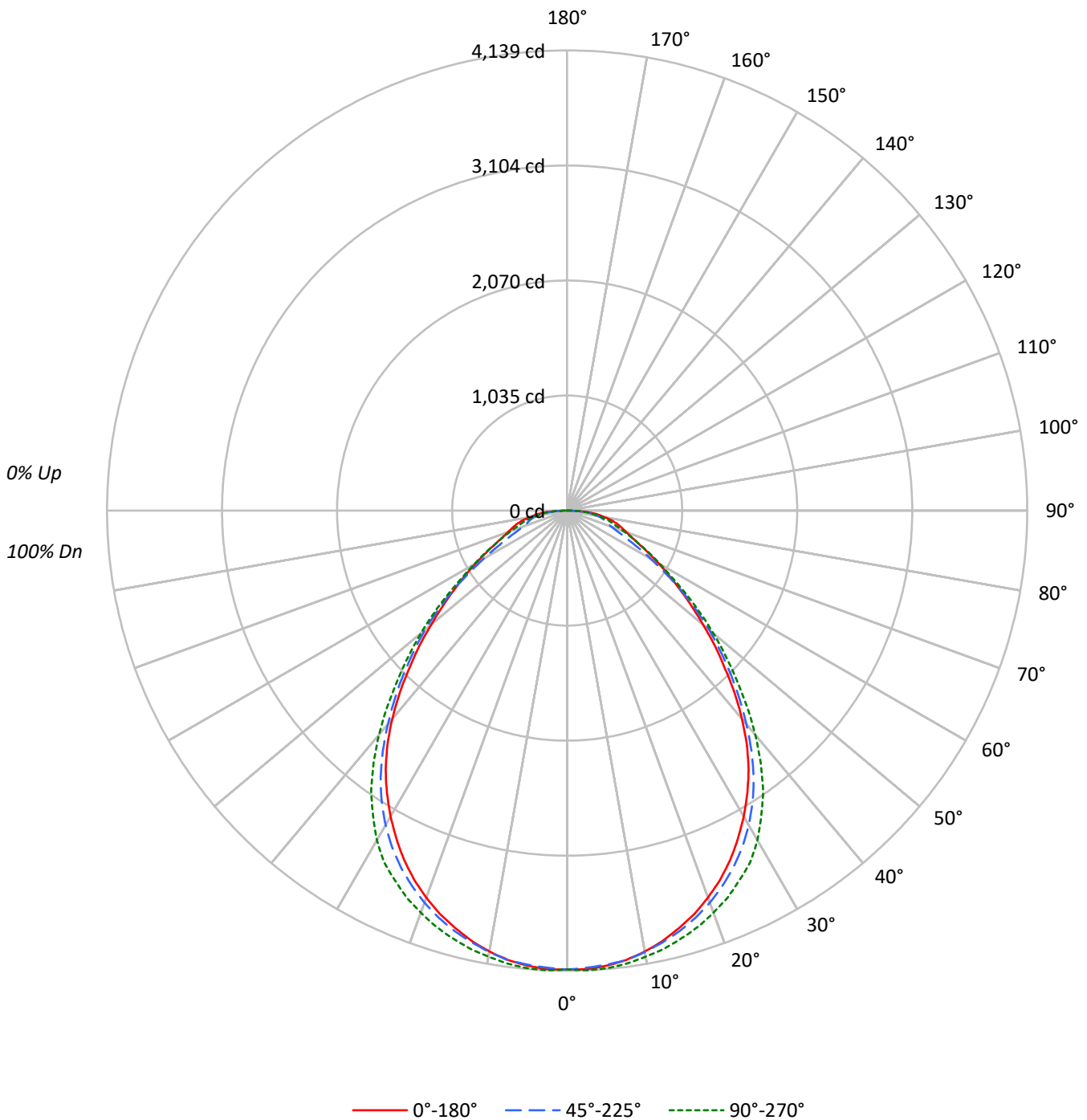
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13221	13221	13221
5°	13211	13177	13285
10°	13099	13112	13248
15°	12891	12981	13202
20°	12624	12788	13116
25°	12256	12507	12964
30°	11745	12077	12656
35°	11127	11437	12017
40°	10231	10484	11008
45°	9088	9419	9760
50°	7938	8302	8551
55°	6902	6995	7252
60°	6072	5564	6192
65°	5396	4447	5428
70°	5299	3950	5005
75°	5787	4341	5115
80°	6353	5160	5468
85°	7599	5986	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.2	4.4
10°-20°	1106.4	12.4
20°-30°	1633.4	18.2
30°-40°	1827.8	20.4
40°-50°	1605.1	17.9
50°-60°	1135.7	12.7
60°-70°	661.1	7.4
70°-80°	412.0	4.6
80°-90°	184.3	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°	3130.0	34.9
0°-40°	4957.8	55.4
0°-60°	7698.5	86.0
0°-90°	8955.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8955.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4128	4128	4128	4128	4128	
5°	4110	4099	4099	4120	4132	390
15°	3888	3896	3915	3957	3982	1096
25°	3468	3483	3539	3623	3669	1593
35°	2846	2859	2926	3013	3074	1770
45°	2007	2030	2080	2130	2155	1552
55°	1236	1261	1253	1276	1299	1117
65°	712	656	587	639	716	722
75°	468	403	351	359	413	488
85°	207	215	163	159	167	210
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4128.2	4128.2	4128.2	4128.2	4128.2
2.5°	4128.2	4119.9	4115.7	4130.3	4138.7
5°	4109.5	4099.0	4099.0	4119.9	4132.4
7.5°	4076.1	4065.6	4078.2	4096.9	4109.5
10°	4028.0	4023.8	4032.2	4057.2	4074.0
12.5°	3965.4	3967.4	3975.8	4015.5	4036.4
15°	3888.2	3896.4	3915.3	3957.0	3982.1
17.5°	3804.6	3810.8	3840.1	3888.2	3923.6
20°	3704.3	3716.9	3752.4	3812.9	3848.5
22.5°	3593.7	3608.3	3652.2	3725.3	3769.1
25°	3468.4	3483.0	3539.4	3622.9	3668.8
27.5°	3326.4	3349.3	3412.0	3503.9	3566.6
30°	3176.1	3194.8	3265.8	3370.3	3422.4
32.5°	3015.3	3038.2	3105.1	3205.3	3251.2
35°	2846.1	2858.7	2925.5	3013.2	3073.7
37.5°	2654.0	2660.3	2722.9	2804.3	2858.7
40°	2447.3	2451.4	2507.9	2585.1	2633.2
42.5°	2232.2	2234.3	2294.8	2353.4	2395.1
45°	2006.7	2029.7	2079.8	2129.9	2155.0
47.5°	1804.2	1820.8	1866.8	1910.6	1933.7
50°	1593.2	1635.0	1666.3	1689.3	1716.4
52.5°	1411.6	1447.1	1455.5	1482.6	1505.5
55°	1236.1	1261.3	1252.9	1275.8	1298.8
57.5°	1087.9	1075.3	1048.2	1087.9	1117.1
60°	948.0	914.6	868.7	922.9	966.8
62.5°	822.7	768.4	712.1	766.3	839.5
65°	712.1	655.7	586.8	639.0	716.3
67.5°	628.5	570.0	488.6	540.8	618.1
70°	565.9	505.3	421.8	465.6	534.5
72.5°	515.8	451.0	377.9	407.2	465.6
75°	467.7	403.0	350.8	359.2	413.4
77.5°	411.3	363.4	321.6	317.4	359.2
80°	344.5	330.0	279.8	273.5	296.5
82.5°	284.0	277.7	229.7	223.4	231.8
85°	206.8	215.0	162.9	158.7	167.1
87.5°	108.6	119.0	85.6	89.8	91.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)