

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: P225726

Luminaire Tested: **22GR-LD5-20-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225726
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-LD5-20-A125-UNV-L940-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: 1800.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

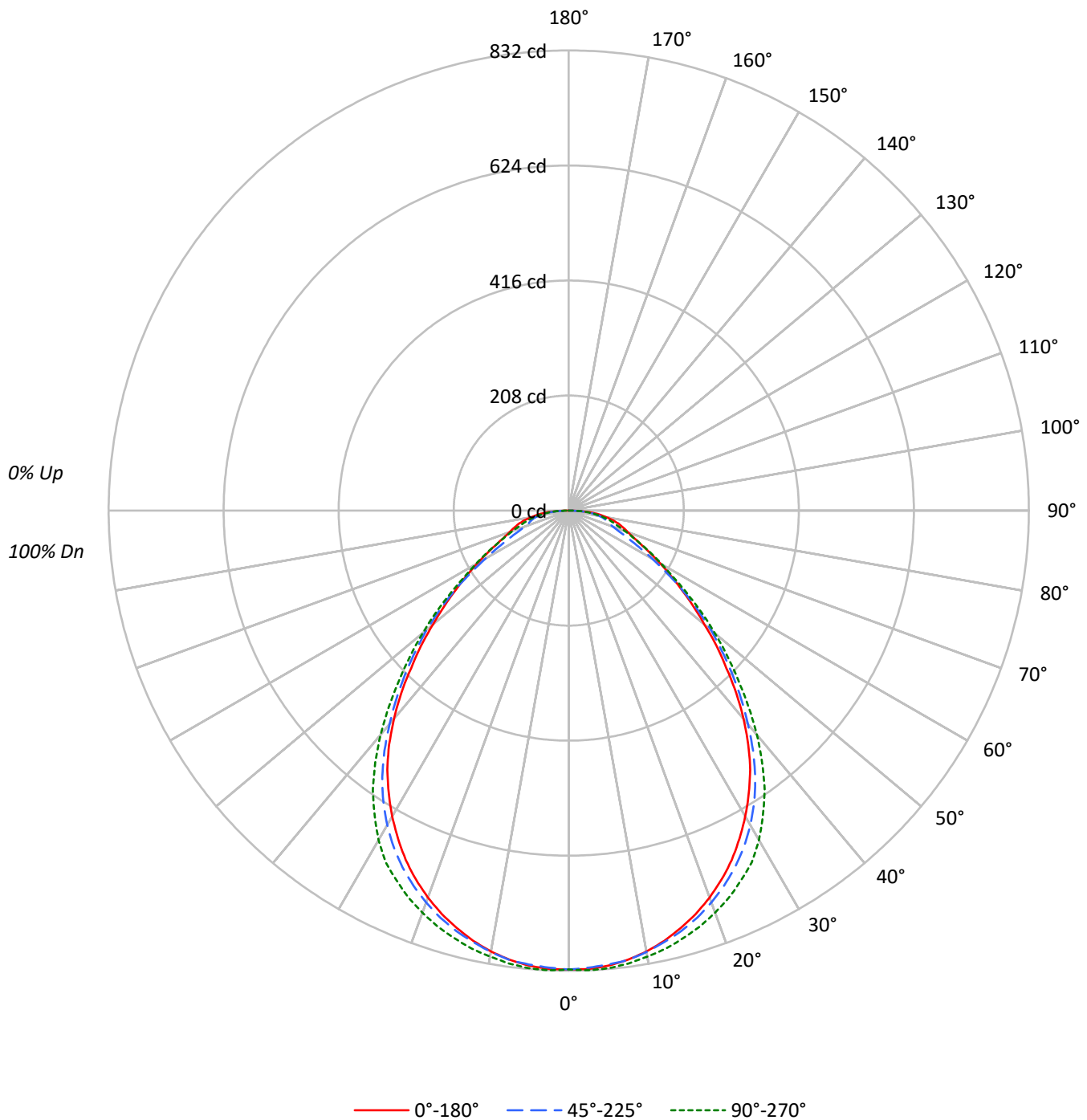
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49		
6	74	61	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	52	46	41	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	34	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	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2657	2657	2657
5°	2655	2648	2670
10°	2632	2635	2663
15°	2591	2609	2653
20°	2537	2570	2636
25°	2463	2514	2606
30°	2360	2427	2543
35°	2236	2299	2415
40°	2056	2107	2212
45°	1827	1893	1962
50°	1595	1669	1718
55°	1387	1406	1457
60°	1221	1118	1244
65°	1084	893	1091
70°	1065	794	1006
75°	1163	872	1028
80°	1276	1036	1099
85°	1525	1205	1231



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	4.4
10°-20°	222.4	12.4
20°-30°	328.3	18.2
30°-40°	367.3	20.4
40°-50°	322.6	17.9
50°-60°	228.3	12.7
60°-70°	132.9	7.4
70°-80°	82.8	4.6
80°-90°	37.1	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°	629.1	34.9
0°-40°	996.4	55.4
0°-60°	1547.2	86.0
0°-90°	1800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	826	824	824	828	830	78
15°	781	783	787	795	800	220
25°	697	700	711	728	737	320
35°	572	575	588	606	618	356
45°	403	408	418	428	433	312
55°	248	253	252	256	261	225
65°	143	132	118	128	144	145
75°	94	81	70	72	83	98
85°	42	43	33	32	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.7	829.7	829.7	829.7	829.7
2.5°	829.7	828.0	827.1	830.2	831.8
5°	825.9	823.8	823.8	828.0	830.5
7.5°	819.2	817.1	819.7	823.4	825.9
10°	809.5	808.7	810.4	815.5	818.8
12.5°	797.0	797.4	799.0	807.0	811.2
15°	781.4	783.1	786.9	795.3	800.3
17.5°	764.6	765.9	771.8	781.4	788.5
20°	744.5	747.0	754.1	766.3	773.5
22.5°	722.2	725.2	734.0	748.7	757.5
25°	697.1	700.0	711.4	728.2	737.4
27.5°	668.6	673.1	685.8	704.3	716.8
30°	638.3	642.1	656.4	677.3	687.8
32.5°	606.0	610.6	624.1	644.2	653.4
35°	572.0	574.6	588.0	605.6	617.7
37.5°	533.4	534.7	547.2	563.6	574.6
40°	491.8	492.7	504.0	519.5	529.2
42.5°	448.7	449.1	461.2	473.0	481.3
45°	403.3	407.9	418.0	428.1	433.1
47.5°	362.6	365.9	375.2	384.0	388.6
50°	320.2	328.6	334.9	339.5	344.9
52.5°	283.7	290.9	292.5	298.0	302.5
55°	248.5	253.4	251.8	256.5	261.0
57.5°	218.6	216.1	210.7	218.6	224.5
60°	190.6	183.8	174.6	185.5	194.3
62.5°	165.4	154.5	143.1	154.0	168.7
65°	143.1	131.8	117.9	128.4	144.0
67.5°	126.3	114.6	98.2	108.7	124.2
70°	113.7	101.6	84.8	93.6	107.4
72.5°	103.6	90.6	75.9	81.9	93.6
75°	94.0	81.0	70.5	72.2	83.1
77.5°	82.6	73.0	64.7	63.8	72.2
80°	69.2	66.3	56.2	55.0	59.6
82.5°	57.1	55.8	46.2	44.9	46.6
85°	41.5	43.3	32.8	31.9	33.5
87.5°	21.8	23.9	17.2	18.1	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)