

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: P225865

Luminaire Tested: **14GR-LD5-20-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

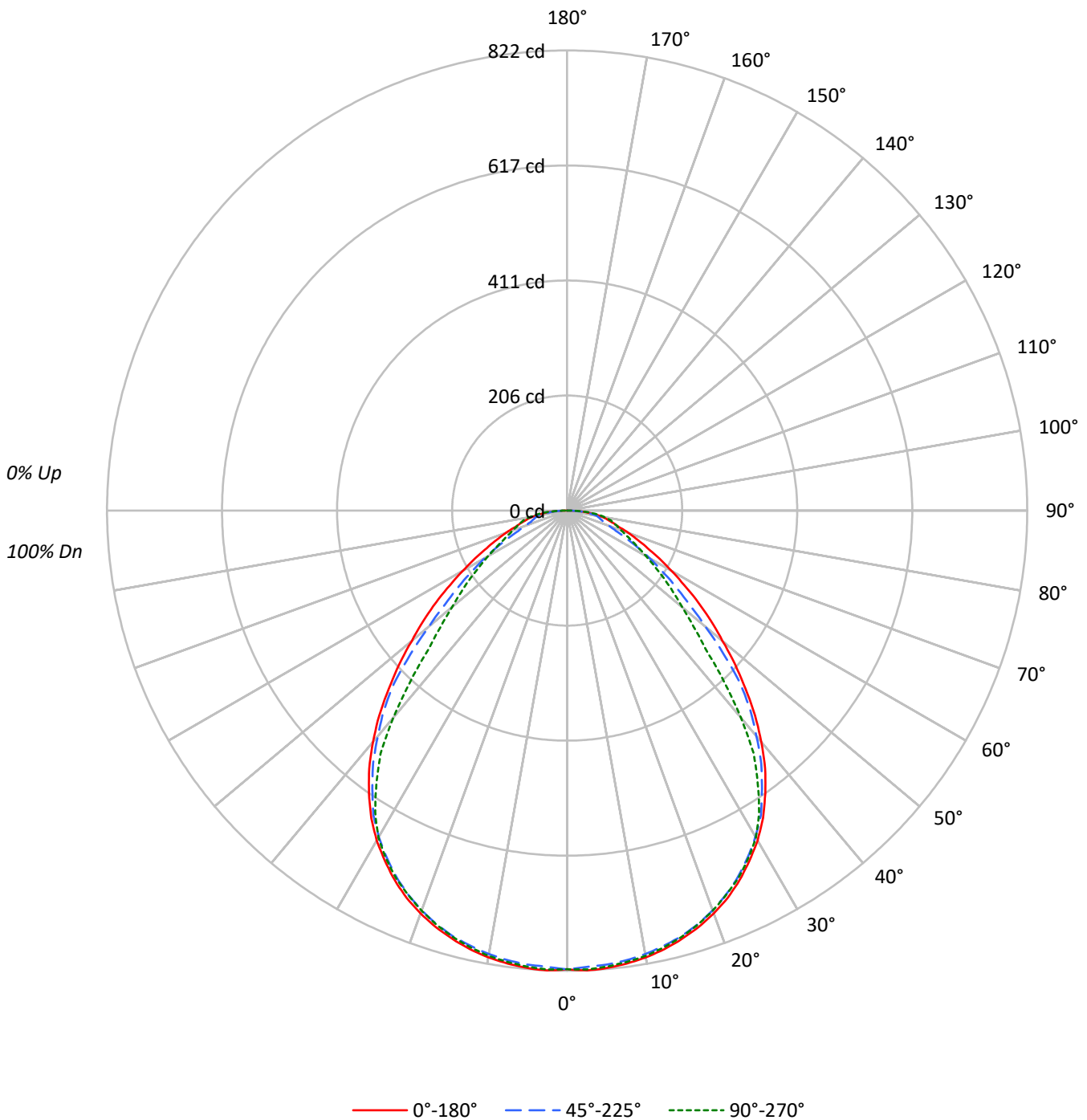
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2761	2761	2761
5°	2775	2753	2766
10°	2774	2752	2764
15°	2764	2746	2751
20°	2746	2725	2728
25°	2709	2684	2692
30°	2647	2618	2624
35°	2538	2495	2442
40°	2373	2314	2124
45°	2148	2086	1665
50°	1900	1688	1404
55°	1681	1388	1238
60°	1451	1148	1098
65°	1262	914	1010
70°	1141	784	1010
75°	1095	819	1129
80°	1221	1044	1318
85°	1291	1110	1577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	4.3
10°-20°	222.7	12.4
20°-30°	333.4	18.6
30°-40°	377.4	21.0
40°-50°	321.4	17.9
50°-60°	217.6	12.1
60°-70°	129.9	7.2
70°-80°	81.2	4.5
80°-90°	34.3	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°	633.8	35.3
0°-40°	1011.2	56.3
0°-60°	1550.3	86.3
0°-90°	1795.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	820	818	814	819	818	78
15°	792	789	787	792	789	224
25°	729	726	722	725	724	335
35°	617	613	607	600	594	385
45°	451	452	438	373	350	348
55°	286	270	236	211	211	256
65°	158	132	115	122	127	160
75°	84	75	63	82	87	91
85°	33	31	29	36	41	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.4	819.4	819.4	819.4	819.4
2.5°	822.3	820.3	815.7	821.1	820.3
5°	820.3	818.2	814.0	819.0	817.8
7.5°	816.1	814.0	810.3	815.3	813.2
10°	810.6	808.1	804.4	809.9	807.8
12.5°	802.4	799.9	796.5	801.9	799.0
15°	792.3	789.4	787.3	792.3	788.6
17.5°	780.3	777.8	774.9	779.8	775.7
20°	765.7	763.6	759.9	762.7	760.7
22.5°	749.1	746.1	742.4	745.7	742.8
25°	728.6	726.5	722.0	725.2	724.0
27.5°	705.3	704.0	698.6	702.8	700.7
30°	680.3	677.0	672.8	674.1	674.4
32.5°	651.5	647.4	644.1	641.1	638.2
35°	617.0	613.2	606.6	600.3	593.7
37.5°	581.1	576.1	569.5	555.7	547.4
40°	539.5	537.0	526.1	507.0	482.8
42.5°	497.0	494.5	484.9	442.0	415.7
45°	450.7	452.0	437.8	373.2	349.5
47.5°	406.6	410.0	379.1	318.7	306.2
50°	362.4	366.2	322.0	275.4	267.9
52.5°	323.7	320.8	274.5	241.7	238.3
55°	286.2	270.4	236.2	210.8	210.8
57.5°	247.9	225.4	200.8	184.6	184.6
60°	215.3	187.5	170.4	159.5	162.9
62.5°	185.4	155.8	141.2	139.1	143.3
65°	158.3	132.1	114.6	122.5	126.7
67.5°	136.2	112.9	94.2	110.9	113.3
70°	115.8	98.3	79.6	102.1	102.5
72.5°	97.1	86.7	68.3	92.4	94.2
75°	84.1	75.4	62.9	82.5	86.7
77.5°	73.7	64.6	57.9	71.2	79.1
80°	62.9	52.9	53.8	60.0	67.9
82.5°	48.3	40.8	42.5	49.2	55.4
85°	33.4	30.8	28.7	36.2	40.8
87.5°	17.9	16.7	14.6	20.4	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)