

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: P225851

Luminaire Tested: **14GR-LD5-20-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225851
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-L930-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: 1674.9 lumens
Efficiency: N/A
Efficacy: 96.8 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

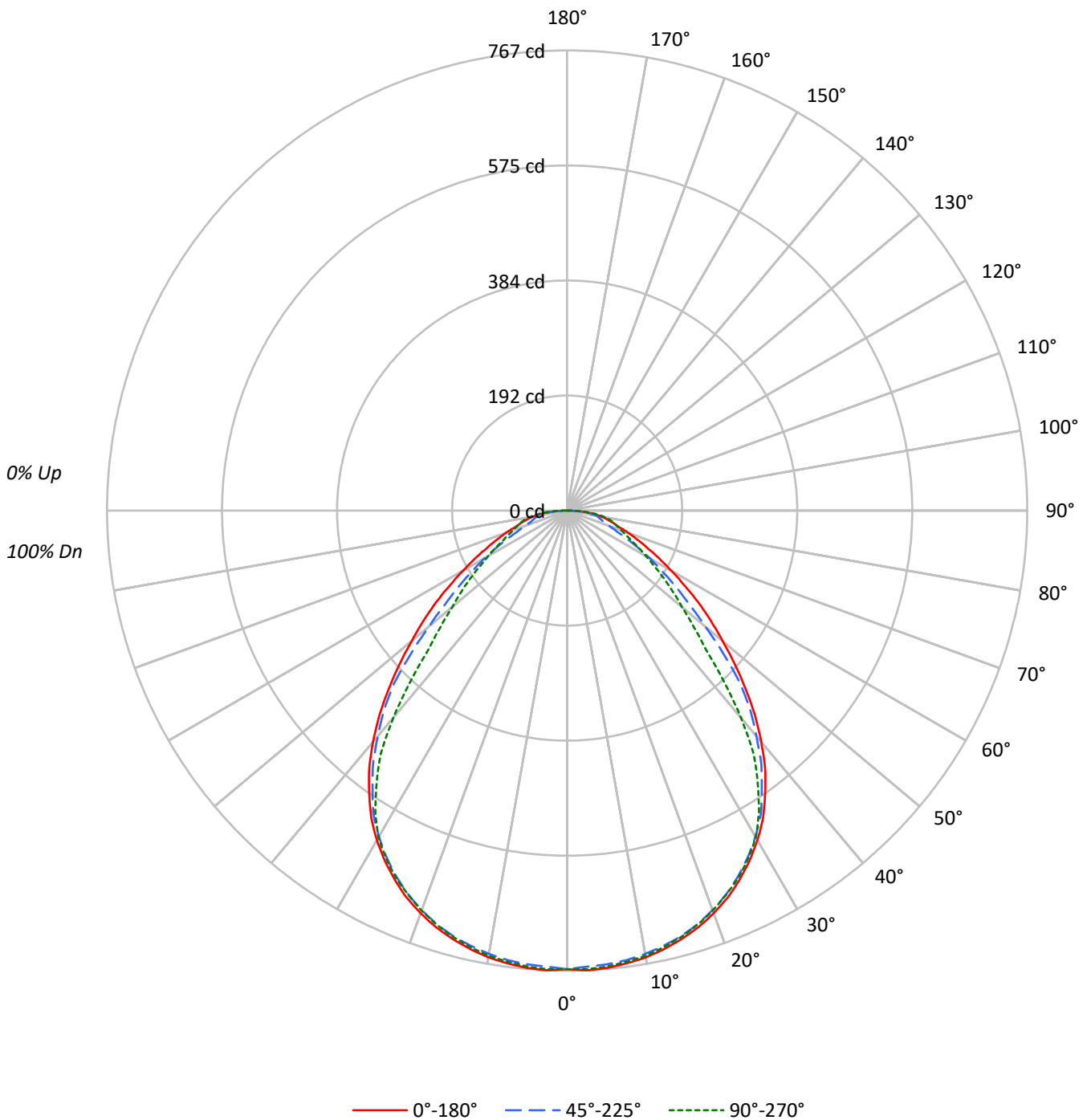
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2575	2575	2575
5°	2588	2568	2580
10°	2587	2567	2578
15°	2578	2562	2566
20°	2561	2541	2545
25°	2527	2504	2511
30°	2469	2442	2448
35°	2367	2327	2278
40°	2213	2159	1981
45°	2004	1946	1553
50°	1772	1575	1309
55°	1568	1294	1155
60°	1354	1071	1024
65°	1178	852	942
70°	1064	731	942
75°	1022	764	1052
80°	1139	972	1228
85°	1202	1036	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	4.3
10°-20°	207.8	12.4
20°-30°	310.9	18.6
30°-40°	352.0	21.0
40°-50°	299.8	17.9
50°-60°	203.0	12.1
60°-70°	121.2	7.2
70°-80°	75.7	4.5
80°-90°	32.0	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°	591.2	35.3
0°-40°	943.2	56.3
0°-60°	1446.0	86.3
0°-90°	1674.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	765	763	759	764	763	73
15°	739	736	734	739	736	208
25°	680	678	673	676	675	313
35°	575	572	566	560	554	359
45°	420	422	408	348	326	324
55°	267	252	220	197	197	239
65°	148	123	107	114	118	149
75°	78	70	59	77	81	85
85°	31	29	27	34	38	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.3	764.3	764.3	764.3	764.3
2.5°	767.1	765.1	760.9	765.8	765.1
5°	765.1	763.2	759.3	763.9	762.8
7.5°	761.2	759.3	755.8	760.4	758.5
10°	756.1	753.8	750.3	755.4	753.5
12.5°	748.4	746.1	742.9	748.0	745.3
15°	739.0	736.4	734.4	739.0	735.5
17.5°	727.8	725.5	722.8	727.4	723.5
20°	714.2	712.2	708.7	711.5	709.6
22.5°	698.7	696.0	692.5	695.5	692.8
25°	679.6	677.7	673.4	676.5	675.4
27.5°	657.9	656.7	651.6	655.5	653.6
30°	634.5	631.5	627.6	628.7	629.1
32.5°	607.7	603.8	600.8	598.0	595.3
35°	575.4	572.0	565.7	559.9	553.7
37.5°	542.1	537.4	531.2	518.3	510.6
40°	503.2	500.9	490.8	472.9	450.4
42.5°	463.6	461.2	452.3	412.3	387.8
45°	420.5	421.6	408.4	348.2	326.0
47.5°	379.2	382.4	353.6	297.2	285.6
50°	338.1	341.5	300.4	256.9	249.8
52.5°	302.0	299.2	256.1	225.3	222.3
55°	266.9	252.2	220.3	196.6	196.6
57.5°	231.2	210.2	187.3	172.1	172.1
60°	200.9	174.9	158.9	148.8	152.0
62.5°	172.9	145.3	131.7	129.8	133.6
65°	147.7	123.2	106.8	114.2	118.1
67.5°	127.1	105.3	87.8	103.3	105.7
70°	108.0	91.7	74.2	95.2	95.6
72.5°	90.6	80.8	63.7	86.2	87.8
75°	78.5	70.3	58.7	76.9	80.8
77.5°	68.8	60.3	54.0	66.5	73.9
80°	58.7	49.4	50.1	55.9	63.3
82.5°	45.1	38.1	39.7	45.8	51.7
85°	31.1	28.7	26.8	33.8	38.1
87.5°	16.7	15.5	13.6	19.0	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)