

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: P225906

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1673.3 lumens
Efficiency: N/A
Efficacy: 96.7 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

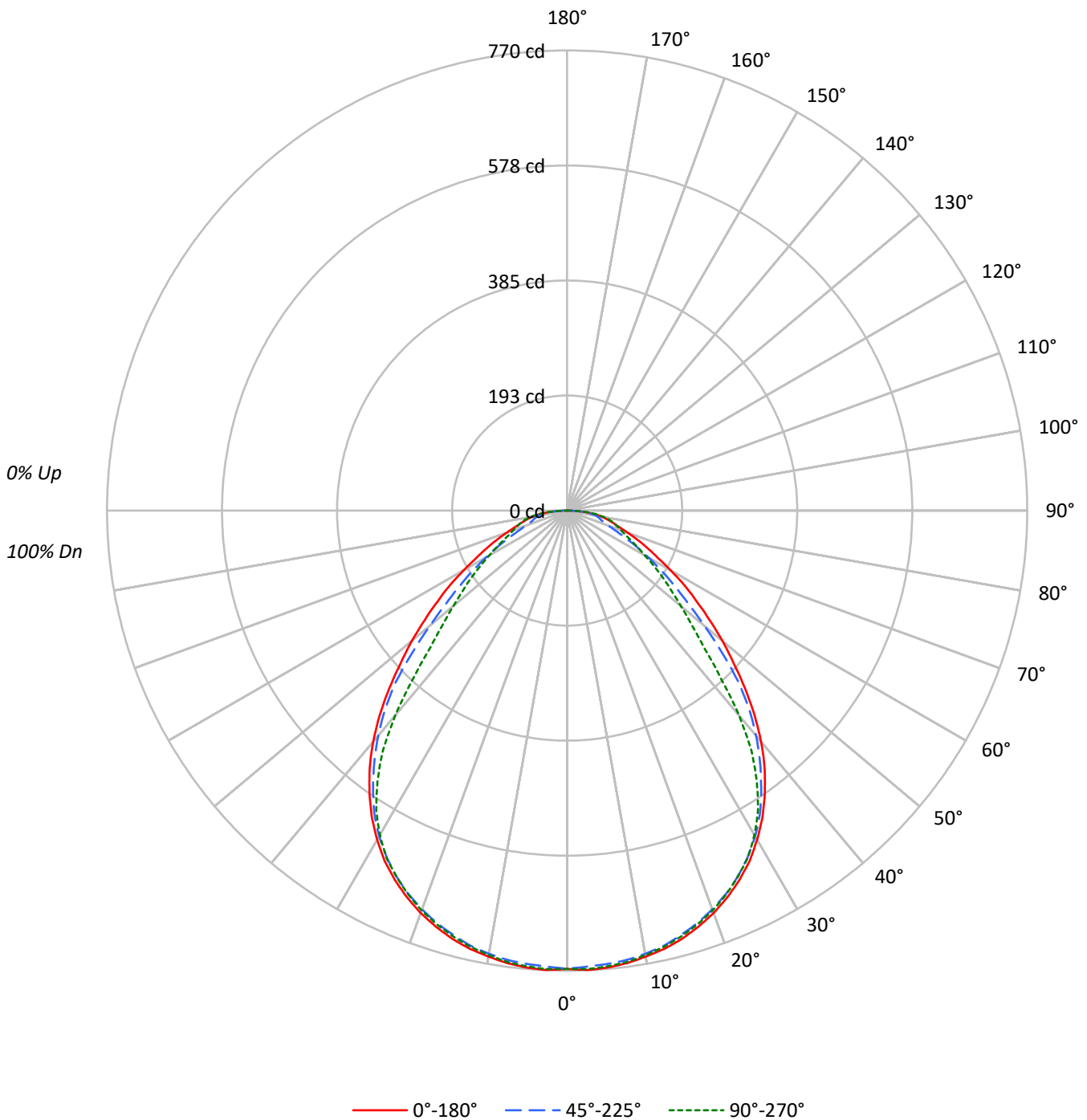
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2584	2584	2584
5°	2596	2576	2590
10°	2593	2577	2584
15°	2588	2565	2573
20°	2570	2546	2553
25°	2536	2511	2513
30°	2474	2448	2438
35°	2373	2329	2276
40°	2220	2164	1969
45°	2006	1930	1539
50°	1779	1567	1302
55°	1553	1285	1148
60°	1346	1058	1014
65°	1181	849	936
70°	1053	719	942
75°	1027	759	1052
80°	1139	959	1207
85°	1187	1021	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	4.3
10°-20°	208.4	12.5
20°-30°	311.8	18.6
30°-40°	351.9	21.0
40°-50°	298.6	17.8
50°-60°	202.0	12.1
60°-70°	120.6	7.2
70°-80°	75.5	4.5
80°-90°	31.8	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°	592.9	35.4
0°-40°	944.9	56.5
0°-60°	1445.4	86.4
0°-90°	1673.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	768	765	762	767	766	73
15°	742	740	735	740	738	209
25°	682	680	676	678	676	314
35°	577	573	566	561	553	359
45°	421	422	405	347	323	324
55°	264	252	219	196	196	238
65°	148	123	106	114	117	148
75°	79	70	58	77	81	85
85°	31	29	26	34	36	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.8	766.8	766.8	766.8	766.8
2.5°	769.5	767.2	763.7	768.3	767.9
5°	767.6	765.2	761.7	767.2	765.6
7.5°	764.0	762.1	758.6	763.7	762.1
10°	757.9	756.3	753.1	757.5	755.1
12.5°	751.2	750.1	746.2	750.1	747.7
15°	741.9	740.4	735.3	740.4	737.6
17.5°	730.2	728.3	724.0	728.3	726.0
20°	716.6	714.3	710.1	714.3	712.0
22.5°	700.4	698.4	694.5	698.4	695.3
25°	682.0	679.7	675.5	678.5	675.9
27.5°	661.1	657.9	654.0	656.4	654.9
30°	635.8	631.9	629.2	629.2	626.5
32.5°	608.2	605.5	600.8	598.1	594.6
35°	576.8	572.9	566.2	561.2	553.4
37.5°	542.9	538.3	530.1	517.3	506.8
40°	504.8	499.0	492.0	466.7	447.7
42.5°	464.1	462.9	450.8	407.7	381.2
45°	420.9	422.5	405.0	347.0	323.0
47.5°	377.4	382.8	350.9	294.2	281.8
50°	339.3	341.2	298.9	255.3	248.3
52.5°	300.0	296.9	255.0	224.6	219.6
55°	264.3	251.8	218.8	195.9	195.5
57.5°	232.8	209.8	186.9	169.8	171.8
60°	199.8	174.1	157.0	147.7	150.4
62.5°	170.6	146.2	131.0	128.2	132.9
65°	148.1	122.8	106.5	113.5	117.4
67.5°	126.7	105.3	86.7	103.3	104.9
70°	106.9	91.3	73.0	95.2	95.6
72.5°	90.6	80.8	63.3	86.2	87.5
75°	78.9	70.3	58.3	76.9	80.8
77.5°	69.1	60.3	54.0	66.5	73.0
80°	58.7	48.6	49.4	55.6	62.2
82.5°	45.1	37.7	39.3	45.9	50.5
85°	30.7	29.1	26.4	34.2	36.5
87.5°	16.4	15.5	13.6	19.4	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)