

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: P225879

Luminaire Tested: **14GR-LD5-20-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F1-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1655.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

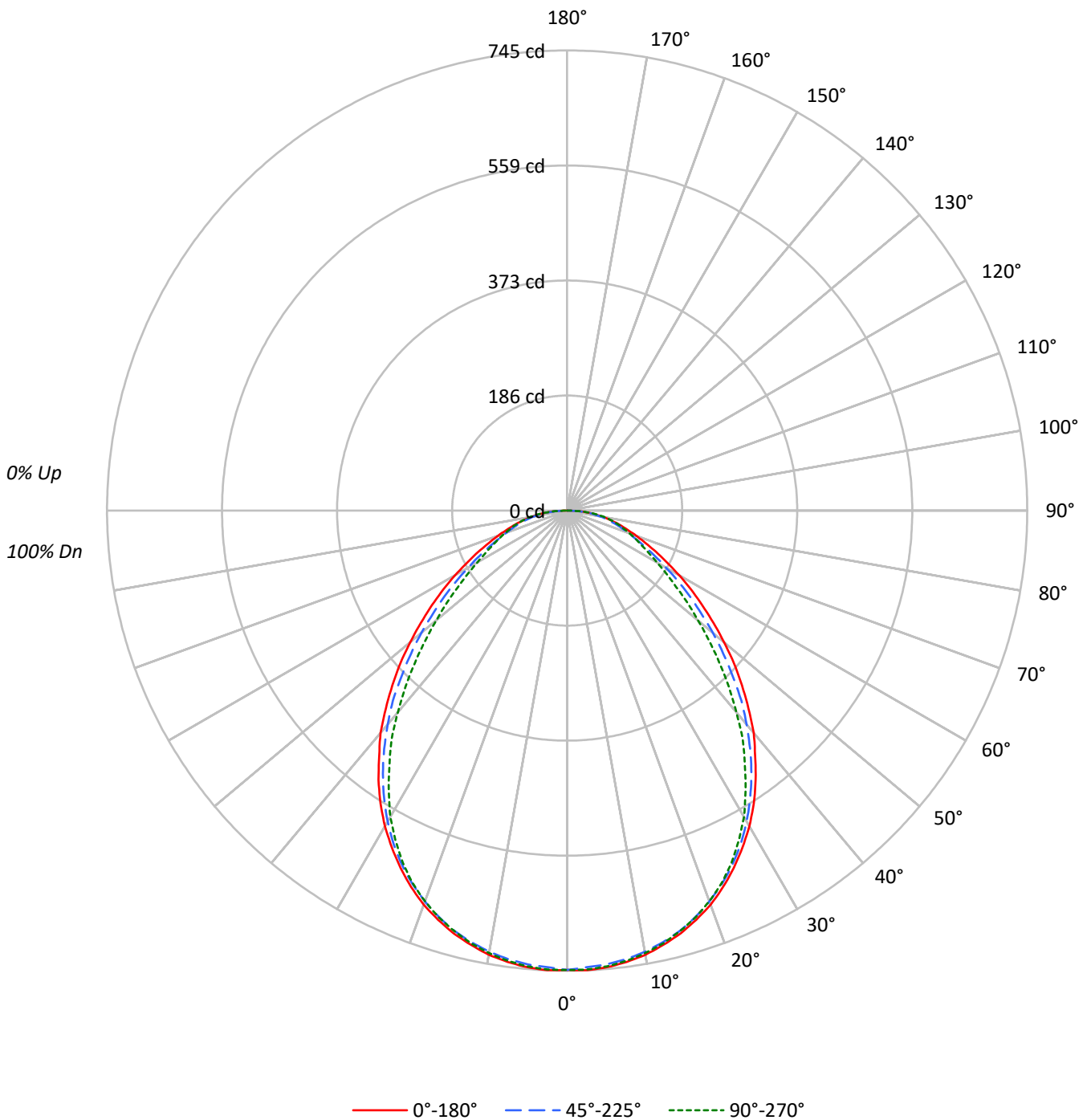
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55				55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48				48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40	38				38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34				34
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31				31
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2506	2506	2506
5°	2510	2495	2505
10°	2498	2481	2489
15°	2473	2458	2459
20°	2435	2415	2413
25°	2374	2353	2340
30°	2295	2262	2228
35°	2190	2140	2064
40°	2067	1988	1874
45°	1907	1807	1662
50°	1737	1615	1450
55°	1569	1428	1265
60°	1412	1242	1130
65°	1267	1110	1060
70°	1169	1032	1051
75°	1127	1021	1108
80°	1131	1065	1199
85°	1210	1106	1256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	4.2
10°-20°	199.0	12.0
20°-30°	291.3	17.6
30°-40°	323.7	19.5
40°-50°	291.0	17.6
50°-60°	217.6	13.1
60°-70°	143.3	8.7
70°-80°	87.1	5.3
80°-90°	32.6	2.0
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°	560.5	33.9
0°-40°	884.2	53.4
0°-60°	1392.8	84.1
0°-90°	1655.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	742	741	738	741	741	70
15°	709	707	705	707	705	200
25°	638	637	633	632	629	294
35°	532	530	520	509	502	332
45°	400	396	379	359	349	309
55°	267	261	243	223	215	240
65°	159	153	139	133	133	159
75°	87	83	78	82	85	92
85°	31	29	29	33	32	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	744.8	743.3	739.9	744.1	743.7
5°	742.2	740.6	737.5	741.4	740.6
7.5°	737.1	735.2	732.5	736.4	735.2
10°	730.2	728.2	725.2	729.4	727.5
12.5°	720.1	718.9	715.9	718.9	717.8
15°	708.9	707.3	704.7	707.0	705.0
17.5°	694.6	693.0	690.0	693.0	690.7
20°	679.1	677.2	673.4	675.7	673.0
22.5°	659.8	657.9	654.4	655.5	653.2
25°	638.5	637.4	632.8	631.6	629.3
27.5°	614.9	613.0	608.8	606.5	601.8
30°	589.9	587.9	581.3	577.5	572.5
32.5°	562.4	559.3	551.6	545.0	537.7
35°	532.3	529.5	520.2	509.0	501.7
37.5°	499.8	498.2	486.6	472.8	467.0
40°	470.0	464.2	451.9	434.8	426.0
42.5°	434.5	430.6	417.5	398.5	387.3
45°	400.1	395.8	379.2	358.7	348.7
47.5°	366.4	361.8	342.9	322.8	311.2
50°	331.3	327.4	308.1	285.7	276.7
52.5°	298.4	293.4	273.3	253.2	245.4
55°	267.1	261.3	243.1	223.0	215.3
57.5°	237.3	230.4	213.0	195.5	190.6
60°	209.5	201.8	184.3	171.6	167.7
62.5°	182.4	176.6	161.2	151.6	149.2
65°	158.9	153.1	139.2	133.4	133.0
67.5°	137.2	131.4	120.6	119.0	119.9
70°	118.7	113.6	104.7	105.5	106.7
72.5°	101.3	96.6	91.2	93.1	95.4
75°	86.6	82.8	78.4	82.3	85.1
77.5°	72.7	68.8	66.5	70.4	73.5
80°	58.3	55.7	54.9	59.2	61.8
82.5°	45.2	42.9	41.7	47.1	48.3
85°	31.3	29.0	28.6	33.3	32.5
87.5°	16.6	14.7	14.7	17.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)