

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: P225880

Luminaire Tested: **14GR-LD5-24-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225880
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-LD5-24-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: 1978.7 lumens
Efficiency: N/A
Efficacy: 94.2 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

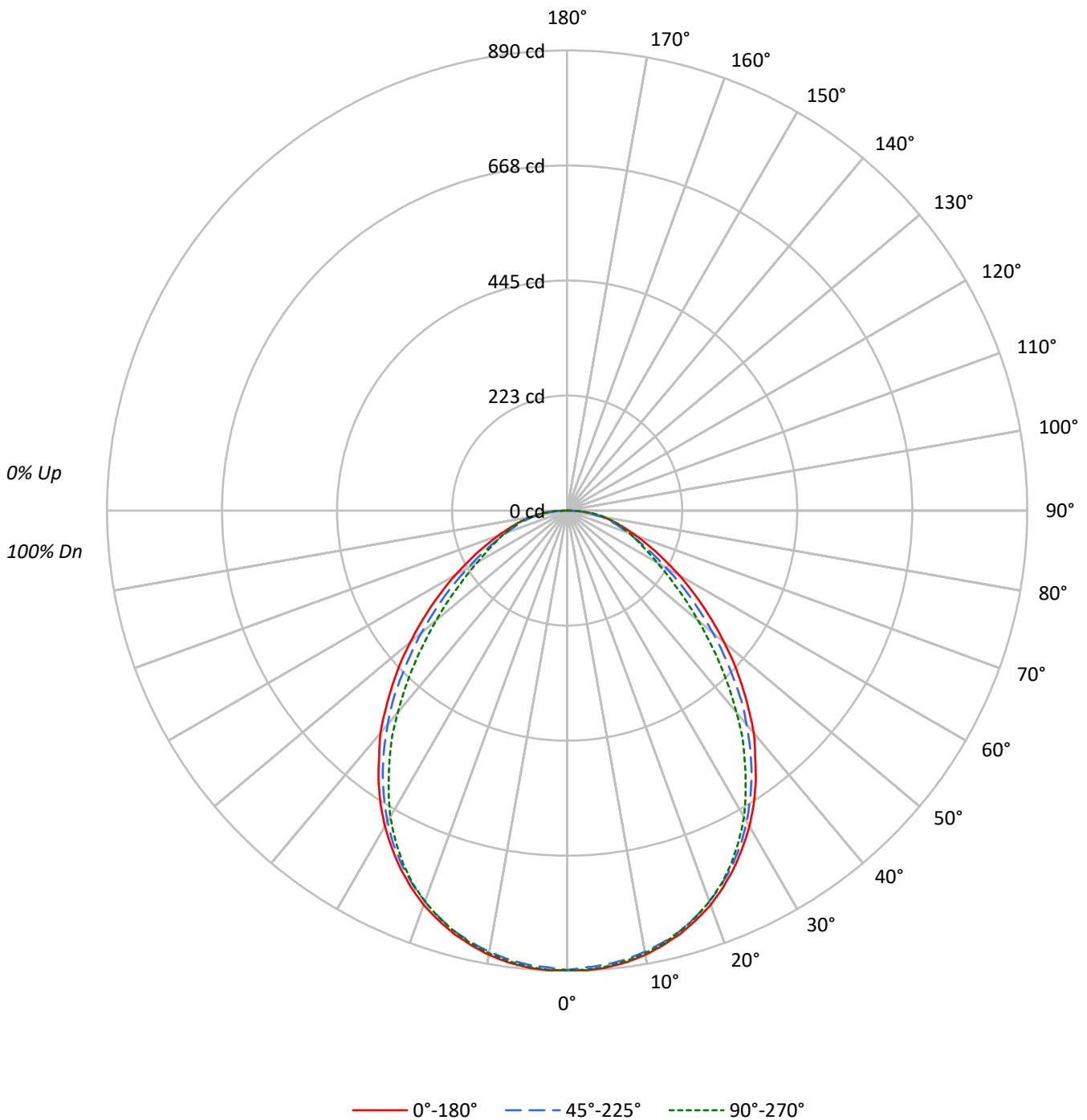
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2995	2995	2995
5°	3000	2981	2993
10°	2985	2965	2974
15°	2955	2937	2939
20°	2910	2885	2884
25°	2837	2811	2796
30°	2742	2703	2662
35°	2616	2558	2466
40°	2471	2375	2239
45°	2278	2159	1986
50°	2075	1930	1734
55°	1875	1707	1512
60°	1687	1485	1351
65°	1513	1325	1267
70°	1397	1233	1256
75°	1347	1221	1323
80°	1353	1273	1434
85°	1446	1322	1500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	4.2
10°-20°	237.8	12.0
20°-30°	348.1	17.6
30°-40°	386.8	19.6
40°-50°	347.8	17.6
50°-60°	260.0	13.1
60°-70°	171.2	8.7
70°-80°	104.1	5.3
80°-90°	38.9	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°	669.8	33.9
0°-40°	1056.6	53.4
0°-60°	1664.4	84.1
0°-90°	1978.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1978.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	887	885	881	886	885	84
15°	847	845	842	845	842	239
25°	763	762	756	755	752	351
35°	636	633	622	608	600	397
45°	478	473	453	429	417	369
55°	319	312	290	266	257	286
65°	190	183	166	159	159	190
75°	104	99	94	98	102	110
85°	37	35	34	40	39	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.7	888.7	888.7	888.7	888.7
2.5°	890.1	888.3	884.1	889.2	888.7
5°	886.9	885.0	881.3	885.9	885.0
7.5°	880.9	878.6	875.3	880.0	878.6
10°	872.5	870.3	866.5	871.6	869.3
12.5°	860.5	859.1	855.5	859.1	857.7
15°	847.1	845.3	842.0	844.9	842.5
17.5°	830.1	828.2	824.5	828.2	825.4
20°	811.6	809.2	804.6	807.4	804.2
22.5°	788.5	786.2	782.0	783.4	780.6
25°	763.1	761.7	756.1	754.7	752.0
27.5°	734.9	732.6	727.5	724.8	719.2
30°	704.8	702.6	694.7	690.1	684.1
32.5°	672.1	668.4	659.1	651.3	642.5
35°	636.0	632.8	621.8	608.3	599.6
37.5°	597.3	595.4	581.5	564.9	558.0
40°	561.7	554.8	540.0	519.7	509.0
42.5°	519.2	514.6	498.8	476.3	462.8
45°	478.1	473.0	453.1	428.6	416.7
47.5°	437.9	432.3	409.7	385.7	371.8
50°	395.8	391.3	368.1	341.4	330.8
52.5°	356.6	350.6	326.6	302.5	293.3
55°	319.1	312.2	290.5	266.5	257.3
57.5°	283.6	275.3	254.5	233.7	227.8
60°	250.3	241.1	220.4	205.1	200.4
62.5°	218.0	211.1	192.6	181.1	178.3
65°	189.8	182.9	166.2	159.4	158.9
67.5°	164.0	157.0	144.1	142.3	143.2
70°	141.8	135.8	125.2	126.1	127.5
72.5°	121.0	115.5	109.0	111.3	114.1
75°	103.5	98.9	93.8	98.4	101.6
77.5°	86.8	82.3	79.4	84.1	87.7
80°	69.7	66.5	65.6	70.6	73.9
82.5°	54.0	51.3	49.9	56.4	57.8
85°	37.4	34.6	34.2	39.8	38.8
87.5°	19.8	17.5	17.5	20.8	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)