

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: P225921

Luminaire Tested: **14GR-LD5-24-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225921
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-LD5-24-A-UNV-L940-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: 2144.0 lumens
Efficiency: N/A
Efficacy: 102.1 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

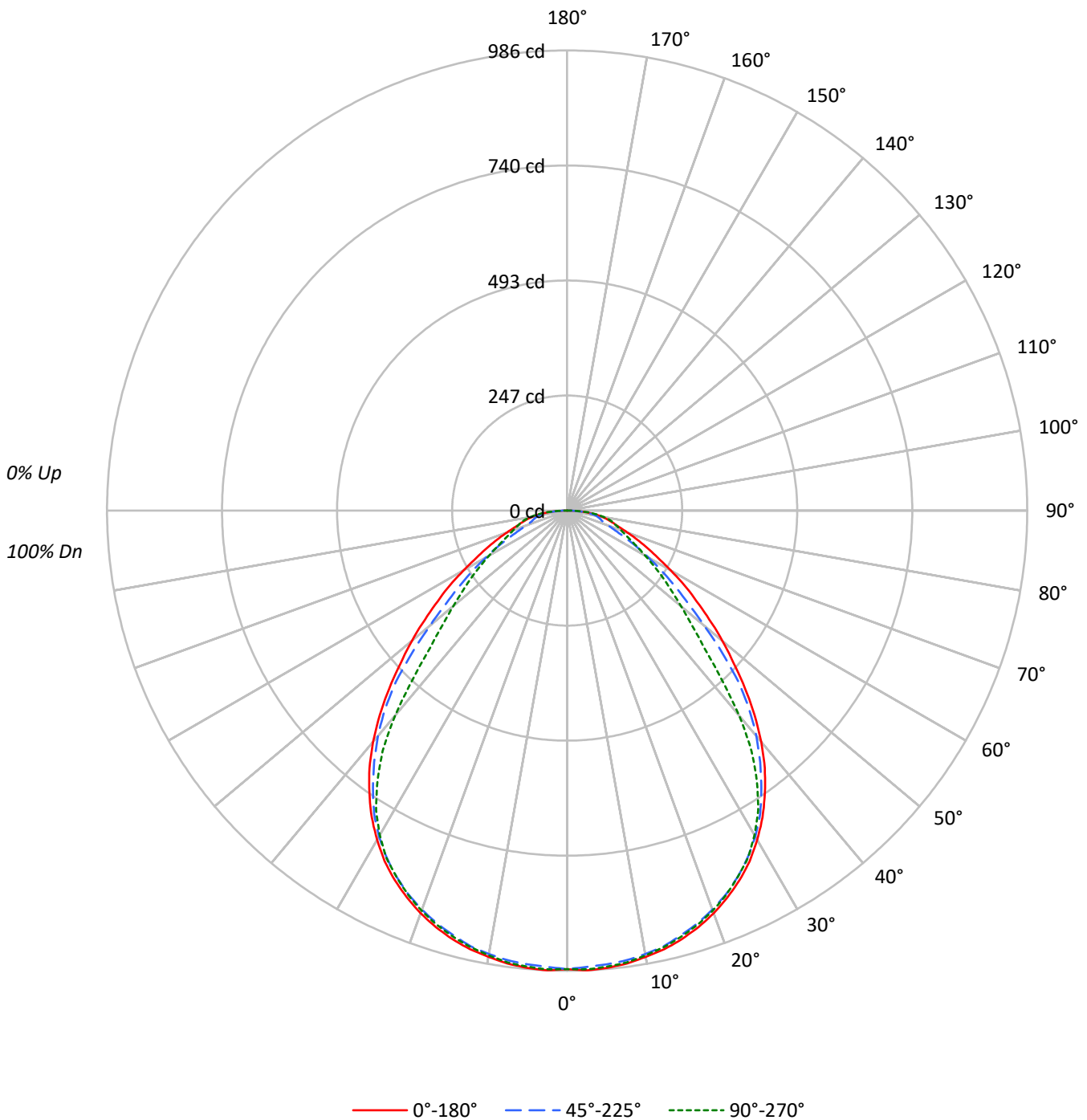
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76					74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38					36				
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34					33				
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3311	3311	3311
5°	3327	3301	3318
10°	3322	3302	3310
15°	3316	3286	3297
20°	3293	3262	3271
25°	3249	3217	3219
30°	3170	3137	3123
35°	3040	2984	2917
40°	2845	2773	2523
45°	2570	2472	1972
50°	2279	2008	1668
55°	1989	1647	1471
60°	1725	1356	1299
65°	1512	1088	1199
70°	1349	923	1207
75°	1315	973	1347
80°	1459	1226	1545
85°	1519	1311	1809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	4.3
10°-20°	267.0	12.5
20°-30°	399.5	18.6
30°-40°	450.9	21.0
40°-50°	382.5	17.8
50°-60°	258.8	12.1
60°-70°	154.5	7.2
70°-80°	96.7	4.5
80°-90°	40.7	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°	759.7	35.4
0°-40°	1210.6	56.5
0°-60°	1852.0	86.4
0°-90°	2144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	984	980	976	983	981	93
15°	951	949	942	949	945	268
25°	874	871	865	870	866	402
35°	739	734	726	719	709	460
45°	539	541	519	445	414	416
55°	339	323	280	251	250	305
65°	190	157	136	145	150	190
75°	101	90	75	99	104	109
85°	39	37	34	44	47	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.5	982.5	982.5	982.5	982.5
2.5°	986.0	983.0	978.5	984.4	983.9
5°	983.5	980.5	976.0	983.0	981.0
7.5°	978.9	976.5	972.0	978.5	976.5
10°	971.0	969.0	965.0	970.5	967.5
12.5°	962.5	961.0	956.1	961.0	958.0
15°	950.6	948.6	942.1	948.6	945.1
17.5°	935.7	933.2	927.7	933.2	930.2
20°	918.2	915.2	909.8	915.2	912.3
22.5°	897.3	894.8	889.8	894.8	890.9
25°	873.9	870.9	865.4	869.5	865.9
27.5°	847.0	843.1	838.1	841.1	839.0
30°	814.7	809.7	806.2	806.2	802.7
32.5°	779.3	775.8	769.9	766.3	761.9
35°	739.0	734.0	725.5	719.0	709.1
37.5°	695.7	689.6	679.2	662.8	649.3
40°	646.8	639.4	630.4	598.0	573.6
42.5°	594.5	593.1	577.7	522.4	488.5
45°	539.3	541.3	518.8	444.7	413.8
47.5°	483.5	490.5	449.7	376.9	361.0
50°	434.7	437.2	383.0	327.1	318.2
52.5°	384.4	380.5	326.6	287.8	281.3
55°	338.6	322.7	280.4	250.9	250.4
57.5°	298.2	268.9	239.5	217.6	220.1
60°	255.9	223.1	201.2	189.2	192.7
62.5°	218.6	187.2	167.8	164.3	170.3
65°	189.7	157.4	136.5	145.4	150.4
67.5°	162.4	134.9	111.0	132.4	134.4
70°	136.9	117.0	93.7	122.0	122.5
72.5°	116.0	103.5	81.2	110.5	112.1
75°	101.0	90.1	74.7	98.6	103.5
77.5°	88.7	77.1	69.2	85.1	93.7
80°	75.2	62.3	63.2	71.2	79.6
82.5°	57.8	48.3	50.3	58.7	64.8
85°	39.3	37.3	33.9	43.9	46.8
87.5°	20.9	20.0	17.5	24.9	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)