

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: P225893

Luminaire Tested: **14GR-LD5-24-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225893
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-L940-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: 2120.8 lumens
Efficiency: N/A
Efficacy: 101.0 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

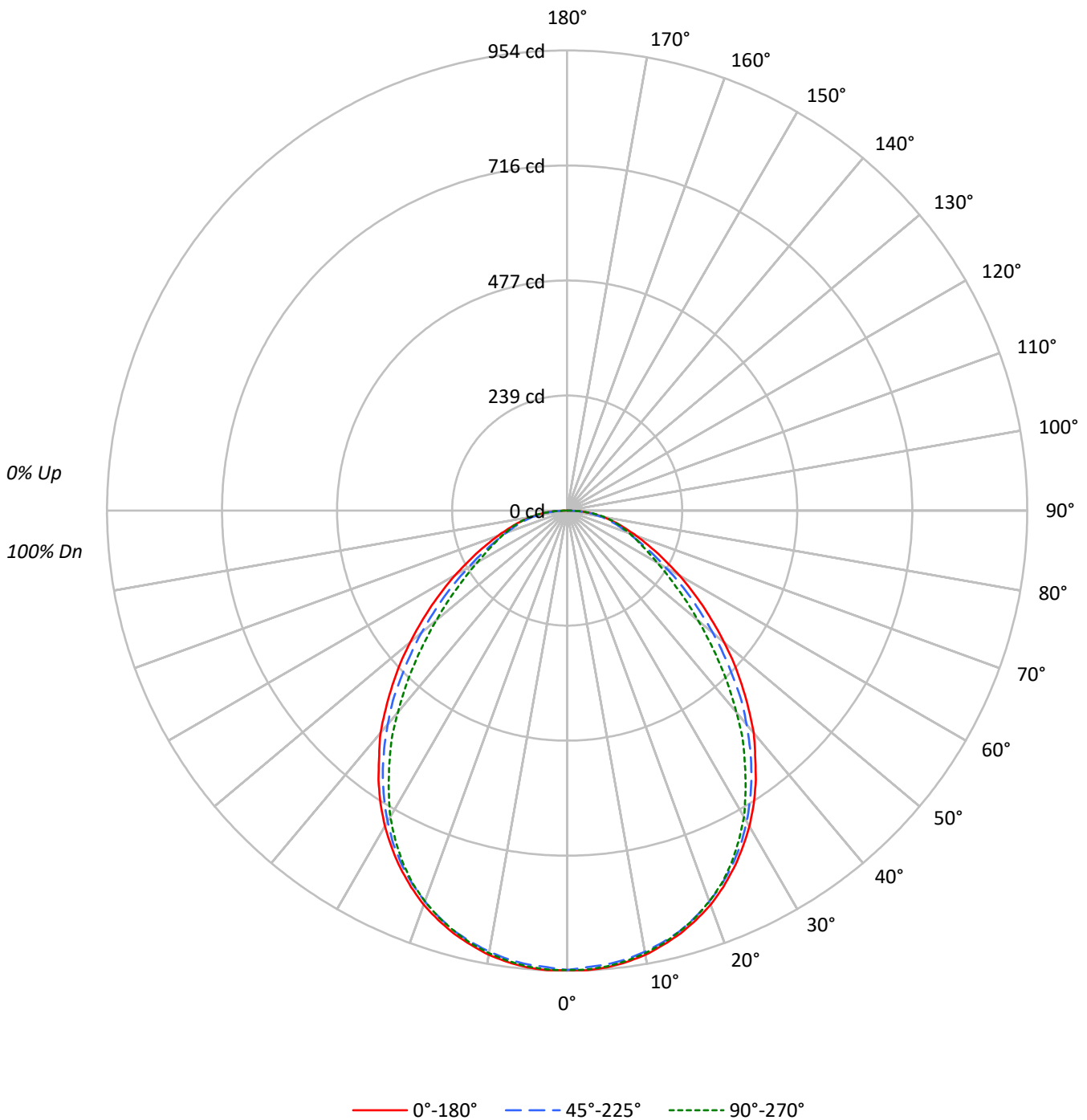
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37		48	41	36		46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3210	3210	3210
5°	3215	3195	3209
10°	3200	3178	3188
15°	3167	3148	3150
20°	3119	3092	3091
25°	3041	3013	2997
30°	2939	2897	2853
35°	2804	2741	2643
40°	2648	2546	2400
45°	2442	2314	2128
50°	2224	2069	1858
55°	2010	1829	1620
60°	1808	1592	1448
65°	1623	1421	1358
70°	1498	1322	1347
75°	1444	1308	1418
80°	1450	1364	1537
85°	1550	1415	1608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	4.2
10°-20°	254.9	12.0
20°-30°	373.0	17.6
30°-40°	414.6	19.5
40°-50°	372.7	17.6
50°-60°	278.7	13.1
60°-70°	183.5	8.7
70°-80°	111.6	5.3
80°-90°	41.8	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°	717.9	33.8
0°-40°	1132.5	53.4
0°-60°	1783.9	84.1
0°-90°	2120.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2120.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	951	949	944	950	949	90
15°	908	906	902	906	903	256
25°	818	816	810	809	806	376
35°	682	678	666	652	643	425
45°	512	507	486	459	446	395
55°	342	335	311	286	276	307
65°	204	196	178	171	170	204
75°	111	106	100	105	109	118
85°	40	37	37	43	42	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.5	952.5	952.5	952.5	952.5
2.5°	954.0	952.0	947.5	953.0	952.5
5°	950.6	948.6	944.5	949.5	948.6
7.5°	944.1	941.6	938.2	943.1	941.6
10°	935.2	932.7	928.7	934.2	931.7
12.5°	922.3	920.8	916.8	920.8	919.3
15°	907.9	905.9	902.5	905.5	903.0
17.5°	889.6	887.6	883.6	887.6	884.7
20°	869.8	867.3	862.4	865.3	861.9
22.5°	845.0	842.6	838.2	839.6	836.7
25°	817.9	816.4	810.4	808.9	806.0
27.5°	787.7	785.2	779.8	776.8	770.8
30°	755.4	753.0	744.6	739.6	733.2
32.5°	720.3	716.4	706.5	698.1	688.6
35°	681.7	678.2	666.3	652.0	642.6
37.5°	640.1	638.1	623.2	605.4	598.0
40°	602.0	594.6	578.7	556.9	545.6
42.5°	556.4	551.5	534.7	510.4	496.0
45°	512.4	507.0	485.6	459.4	446.5
47.5°	469.3	463.4	439.1	413.4	398.5
50°	424.2	419.3	394.6	365.8	354.5
52.5°	382.2	375.7	350.0	324.3	314.3
55°	342.1	334.6	311.4	285.7	275.7
57.5°	304.0	295.1	272.8	250.5	244.1
60°	268.3	258.4	236.2	219.8	214.8
62.5°	233.7	226.3	206.4	194.1	191.1
65°	203.5	196.1	178.2	170.8	170.3
67.5°	175.8	168.3	154.5	152.5	153.5
70°	152.0	145.5	134.2	135.2	136.7
72.5°	129.7	123.8	116.9	119.3	122.3
75°	110.9	106.0	100.5	105.4	108.9
77.5°	93.1	88.2	85.1	90.1	94.1
80°	74.7	71.3	70.3	75.8	79.2
82.5°	58.0	55.0	53.5	60.4	61.9
85°	40.1	37.2	36.6	42.6	41.6
87.5°	21.3	18.8	18.8	22.3	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)