

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: P225887

Luminaire Tested: **14GR-LD5-24-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225887
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-L935-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: 2061.3 lumens
Efficiency: N/A
Efficacy: 98.2 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

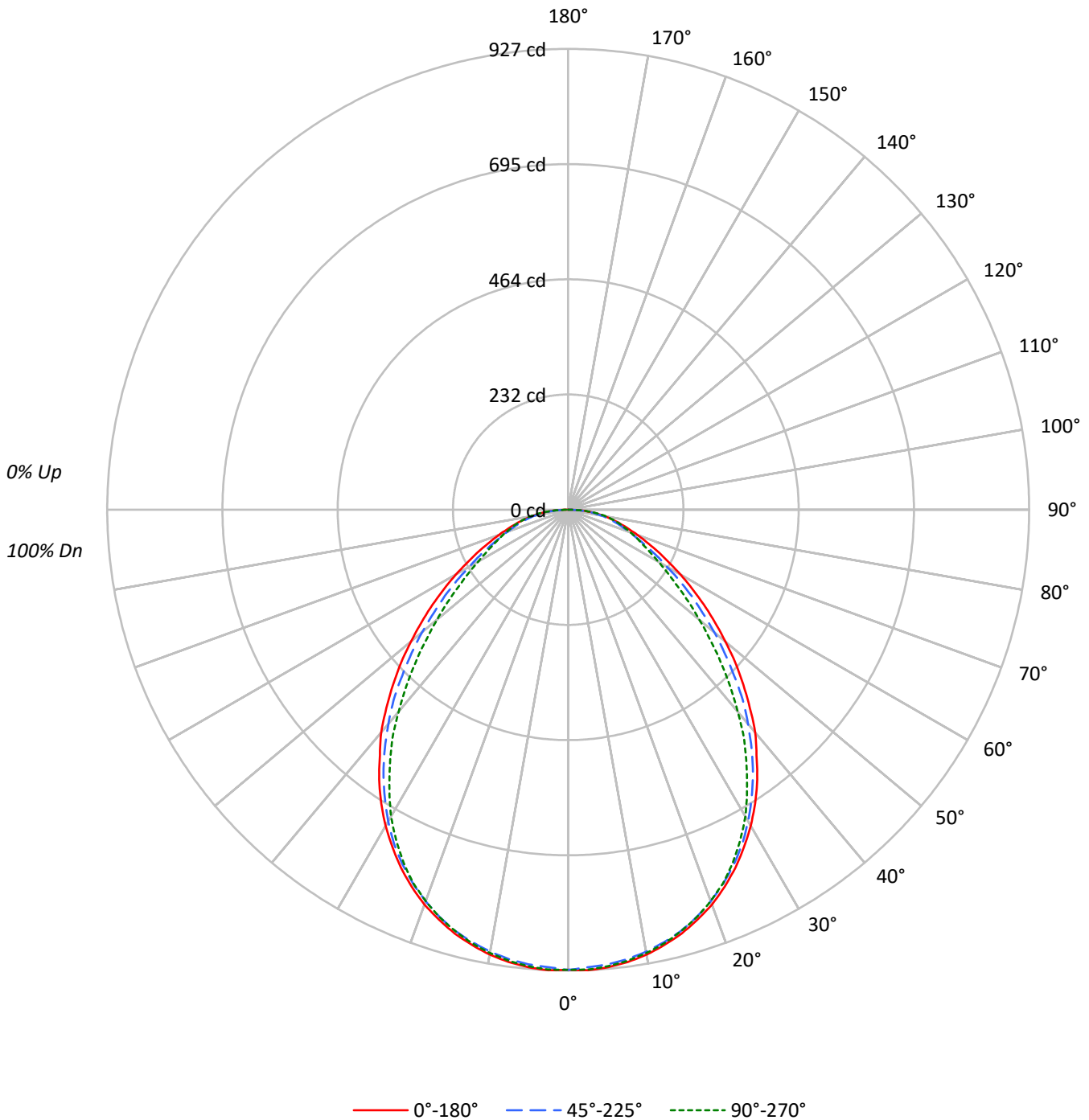
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	37	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°	3119	3119	3119
5°	3125	3105	3118
10°	3110	3089	3099
15°	3079	3060	3061
20°	3031	3006	3004
25°	2955	2929	2913
30°	2857	2816	2773
35°	2726	2664	2569
40°	2574	2474	2332
45°	2373	2249	2068
50°	2161	2010	1806
55°	1953	1778	1574
60°	1758	1547	1407
65°	1577	1381	1320
70°	1455	1285	1308
75°	1403	1272	1377
80°	1411	1325	1494
85°	1508	1376	1566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	4.2
10°-20°	247.7	12.0
20°-30°	362.6	17.6
30°-40°	403.0	19.5
40°-50°	362.3	17.6
50°-60°	270.9	13.1
60°-70°	178.4	8.7
70°-80°	108.4	5.3
80°-90°	40.6	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°	697.7	33.9
0°-40°	1100.7	53.4
0°-60°	1733.8	84.1
0°-90°	2061.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	924	922	918	923	922	88
15°	882	880	877	880	878	249
25°	795	794	788	786	783	365
35°	663	659	648	634	625	413
45°	498	493	472	446	434	384
55°	332	325	303	278	268	298
65°	198	191	173	166	166	198
75°	108	103	98	102	106	115
85°	39	36	36	41	40	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.7	925.7	925.7	925.7	925.7
2.5°	927.2	925.3	921.0	926.2	925.7
5°	923.9	921.9	918.1	922.8	921.9
7.5°	917.6	915.2	911.8	916.6	915.2
10°	908.9	906.5	902.7	908.0	905.6
12.5°	896.4	895.0	891.1	895.0	893.5
15°	882.5	880.5	877.2	880.1	877.6
17.5°	864.6	862.8	858.9	862.8	859.9
20°	845.4	843.0	838.2	841.1	837.7
22.5°	821.4	819.0	814.6	816.1	813.2
25°	794.9	793.5	787.7	786.2	783.4
27.5°	765.5	763.1	757.9	755.0	749.2
30°	734.2	731.8	723.7	718.8	712.6
32.5°	700.1	696.2	686.6	678.5	669.3
35°	662.6	659.2	647.6	633.7	624.6
37.5°	622.1	620.2	605.8	588.5	581.2
40°	585.1	577.9	562.5	541.3	530.2
42.5°	540.9	536.0	519.7	496.1	482.1
45°	498.0	492.7	472.0	446.5	434.0
47.5°	456.1	450.4	426.8	401.8	387.3
50°	412.3	407.6	383.5	355.6	344.5
52.5°	371.4	365.2	340.2	315.2	305.6
55°	332.5	325.3	302.7	277.6	268.0
57.5°	295.5	286.8	265.1	243.4	237.2
60°	260.8	251.2	229.5	213.6	208.8
62.5°	227.1	219.9	200.7	188.6	185.7
65°	197.8	190.6	173.2	166.0	165.5
67.5°	170.8	163.6	150.1	148.2	149.2
70°	147.7	141.4	130.4	131.3	132.8
72.5°	126.1	120.3	113.6	115.9	118.8
75°	107.8	102.9	97.7	102.5	105.8
77.5°	90.4	85.7	82.8	87.6	91.5
80°	72.7	69.3	68.3	73.6	77.0
82.5°	56.3	53.4	51.9	58.7	60.2
85°	39.0	36.1	35.6	41.4	40.5
87.5°	20.7	18.3	18.3	21.7	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)