

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: P231786

Luminaire Tested: **24GR-LD5-130-F1-UNV-L940-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-F1-UNV-L940-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11429.4 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

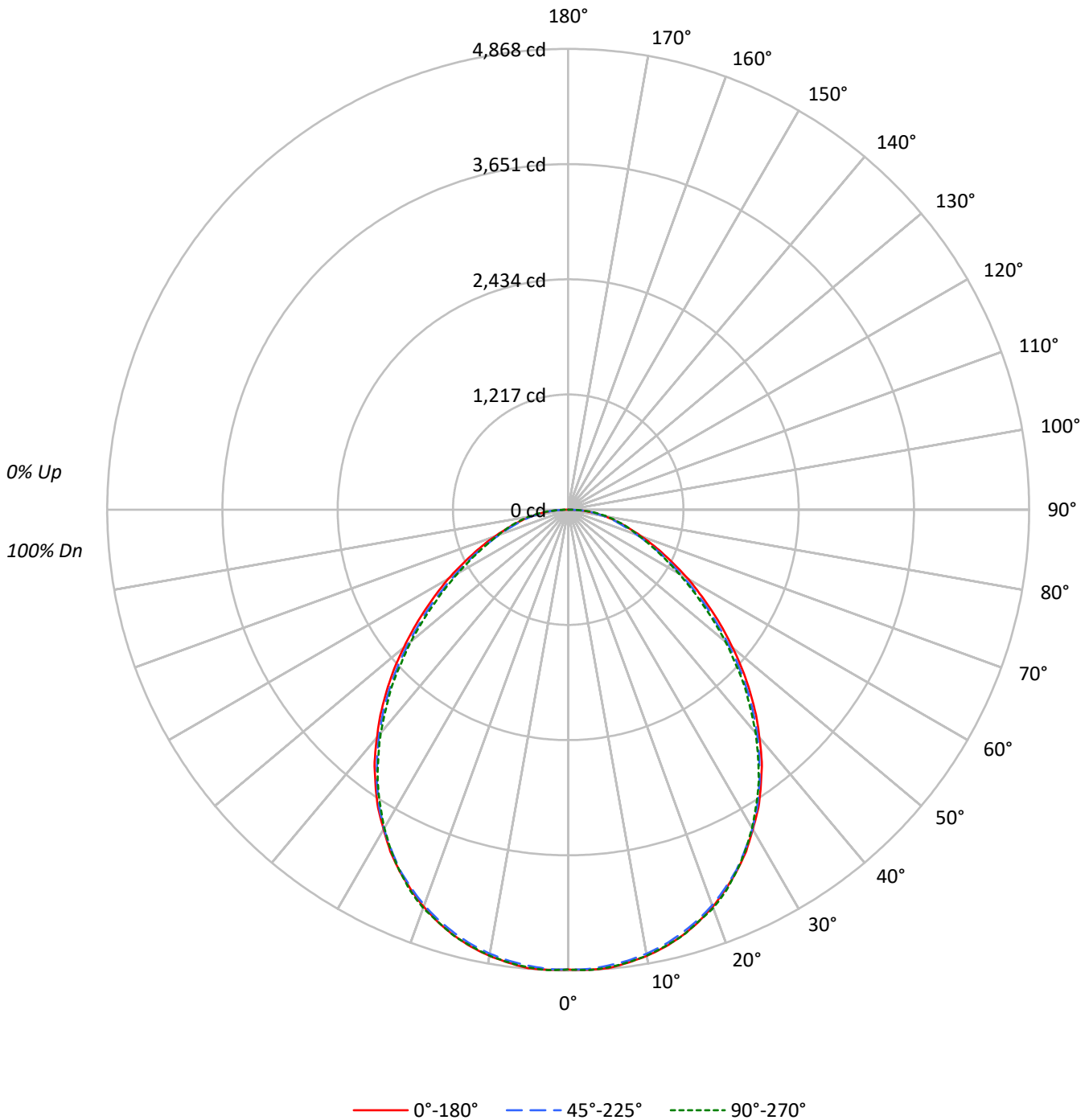
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7440	7440	7440
5°	7474	7432	7463
10°	7444	7408	7441
15°	7385	7345	7391
20°	7277	7248	7300
25°	7119	7101	7116
30°	6894	6881	6866
35°	6634	6584	6557
40°	6279	6208	6158
45°	5874	5766	5696
50°	5397	5253	5163
55°	4923	4742	4604
60°	4471	4230	4121
65°	4027	3801	3736
70°	3688	3448	3544
75°	3446	3288	3531
80°	3420	3357	3687
85°	3485	3516	4019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.7	4.0
10°-20°	1307.0	11.4
20°-30°	1930.8	16.9
30°-40°	2195.2	19.2
40°-50°	2050.0	17.9
50°-60°	1594.2	13.9
60°-70°	1057.8	9.3
70°-80°	612.1	5.4
80°-90°	222.6	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°	3697.5	32.4
0°-40°	5892.7	51.6
0°-60°	9536.9	83.4
0°-90°	11429.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11429.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4858	4858	4858	4858	4858	
5°	4861	4836	4834	4843	4854	461
15°	4657	4634	4632	4631	4661	1312
25°	4212	4195	4202	4193	4211	1937
35°	3548	3530	3521	3496	3507	2215
45°	2712	2690	2662	2628	2630	2090
55°	1844	1817	1776	1729	1724	1653
65°	1111	1077	1049	1029	1031	1111
75°	582	568	556	581	597	623
85°	198	195	200	227	229	216
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4857.5	4857.5	4857.5	4857.5	4857.5
2.5°	4864.7	4850.3	4857.5	4852.1	4868.2
5°	4861.1	4836.0	4834.2	4843.2	4853.9
7.5°	4827.1	4800.3	4805.7	4805.7	4823.6
10°	4786.1	4759.2	4762.9	4764.6	4784.3
12.5°	4730.7	4703.9	4705.7	4703.9	4723.5
15°	4657.4	4634.2	4632.4	4630.6	4660.9
17.5°	4568.1	4535.9	4546.6	4548.5	4564.5
20°	4464.4	4439.5	4446.6	4444.8	4478.8
22.5°	4341.2	4323.3	4328.7	4325.1	4357.3
25°	4212.5	4194.7	4201.9	4192.9	4210.8
27.5°	4067.9	4055.3	4048.2	4042.9	4055.3
30°	3898.1	3891.0	3891.0	3867.8	3882.0
32.5°	3737.4	3714.2	3714.2	3705.2	3696.3
35°	3548.0	3530.1	3521.2	3496.2	3506.9
37.5°	3358.6	3317.5	3313.9	3294.3	3294.3
40°	3140.6	3117.4	3104.9	3083.5	3079.9
42.5°	2933.5	2910.2	2888.7	2853.0	2845.9
45°	2711.9	2690.5	2661.9	2627.9	2629.7
47.5°	2492.2	2461.8	2435.0	2393.9	2388.6
50°	2265.2	2243.8	2204.5	2168.8	2167.0
52.5°	2052.6	2018.8	1983.0	1940.2	1940.2
55°	1843.7	1816.8	1775.8	1729.4	1724.0
57.5°	1643.5	1618.6	1572.1	1538.2	1529.3
60°	1459.6	1423.8	1381.0	1352.4	1345.2
62.5°	1275.6	1243.4	1211.2	1182.7	1180.9
65°	1111.2	1077.2	1048.7	1029.0	1030.8
67.5°	962.9	934.3	902.1	896.8	898.6
70°	823.5	793.2	770.0	782.5	791.5
72.5°	691.4	675.3	659.2	677.1	689.5
75°	582.4	568.1	555.6	580.6	596.7
77.5°	482.4	471.6	469.8	491.3	505.6
80°	387.7	375.1	380.6	405.6	418.0
82.5°	294.8	285.9	287.6	318.0	327.0
85°	198.3	194.7	200.1	226.9	228.7
87.5°	105.4	105.4	109.0	125.0	119.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)