

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: P231834

Luminaire Tested: **24GR-LD5-150-A125-UNV-L940-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-A125-UNV-L940-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13217.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

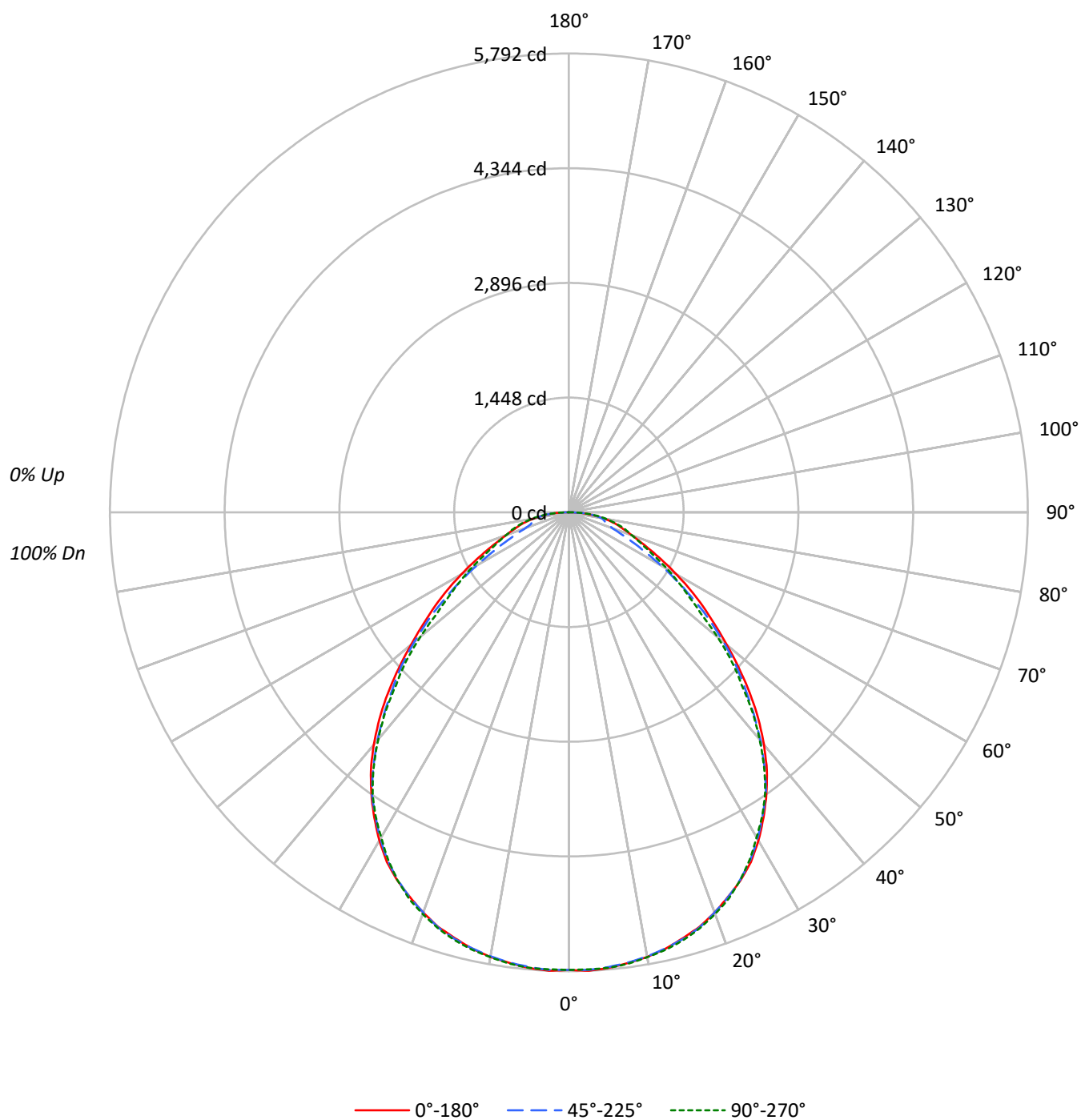
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	100	96		99	96	93		95	93	90		91	90	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	79	76
3	93	83	76	70	90	82	75	69		79	73	68		76	71	67		73	69	66
4	86	75	66	60	83	73	66	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	47	72	60	52	46		58	51	46		57	50	46		55	50	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8846	8846	8846
5°	8876	8858	8873
10°	8864	8851	8867
15°	8821	8838	8860
20°	8762	8762	8795
25°	8663	8645	8652
30°	8460	8417	8376
35°	8127	8104	8073
40°	7656	7516	7483
45°	7003	6811	6686
50°	6191	6068	5832
55°	5506	5132	4933
60°	4794	4105	4402
65°	4140	3183	3893
70°	3776	2604	3767
75°	3807	2807	4002
80°	3965	3655	4219
85°	4130	4348	4675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	4.1
10°-20°	1571.3	11.9
20°-30°	2352.0	17.8
30°-40°	2687.5	20.3
40°-50°	2429.8	18.4
50°-60°	1748.1	13.2
60°-70°	1013.4	7.7
70°-80°	601.2	4.5
80°-90°	266.3	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°	4471.1	33.8
0°-40°	7158.6	54.2
0°-60°	11336.5	85.8
0°-90°	13217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13217.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5776	5776	5776	5776	5776	
5°	5773	5765	5761	5753	5771	548
15°	5563	5574	5574	5567	5588	1571
25°	5126	5120	5116	5105	5120	2357
35°	4347	4326	4334	4281	4318	2710
45°	3233	3177	3144	3116	3087	2484
55°	2062	2023	1922	1872	1848	1845
65°	1142	1014	878	982	1074	1153
75°	643	538	474	586	676	680
85°	235	254	247	285	266	252
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5775.5	5775.5	5775.5	5775.5	5775.5
2.5°	5792.0	5771.4	5781.7	5775.5	5773.4
5°	5773.4	5765.2	5761.1	5752.8	5771.4
7.5°	5736.4	5730.2	5732.2	5734.3	5746.7
10°	5699.2	5688.9	5691.0	5695.1	5701.3
12.5°	5641.5	5635.3	5637.4	5641.5	5656.0
15°	5563.2	5573.5	5573.5	5567.3	5587.8
17.5°	5484.8	5482.8	5493.0	5474.5	5503.3
20°	5375.5	5377.6	5375.5	5377.6	5396.2
22.5°	5251.8	5262.1	5255.9	5255.9	5276.5
25°	5126.0	5119.8	5115.7	5105.4	5119.8
27.5°	4975.4	4963.1	4952.8	4932.2	4942.5
30°	4783.8	4785.8	4759.0	4740.4	4736.3
32.5°	4569.3	4569.3	4544.5	4530.1	4542.4
35°	4346.6	4326.0	4334.2	4280.6	4317.7
37.5°	4105.4	4072.4	4053.8	4035.2	4047.6
40°	3829.1	3785.7	3759.0	3721.8	3742.5
42.5°	3538.3	3484.7	3451.7	3424.9	3433.1
45°	3233.2	3177.4	3144.5	3115.6	3086.7
47.5°	2911.4	2876.4	2859.9	2822.8	2789.8
50°	2598.1	2585.7	2546.5	2515.6	2447.6
52.5°	2311.4	2301.1	2239.3	2187.8	2101.2
55°	2061.9	2022.8	1921.8	1872.2	1847.5
57.5°	1808.3	1744.4	1622.7	1616.5	1633.1
60°	1565.0	1486.7	1340.2	1373.2	1437.1
62.5°	1344.4	1226.9	1086.6	1165.0	1241.3
65°	1142.3	1014.5	878.4	981.5	1074.3
67.5°	975.3	847.4	707.3	845.4	952.6
70°	843.3	713.5	581.4	740.2	841.3
72.5°	734.1	616.5	507.2	657.7	762.9
75°	643.4	538.2	474.3	585.6	676.3
77.5°	552.6	468.1	453.6	521.7	577.3
80°	449.5	410.3	414.4	457.8	478.3
82.5°	336.1	338.2	348.5	383.6	375.3
85°	235.0	253.6	247.4	284.6	266.0
87.5°	129.9	142.2	134.0	162.9	146.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)