

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: P231838

Luminaire Tested: **24GR-LD5-180-A125-UNV-L940-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231838
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-LD5-180-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: 15552.2 lumens
Efficiency: N/A
Efficacy: 107.9 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

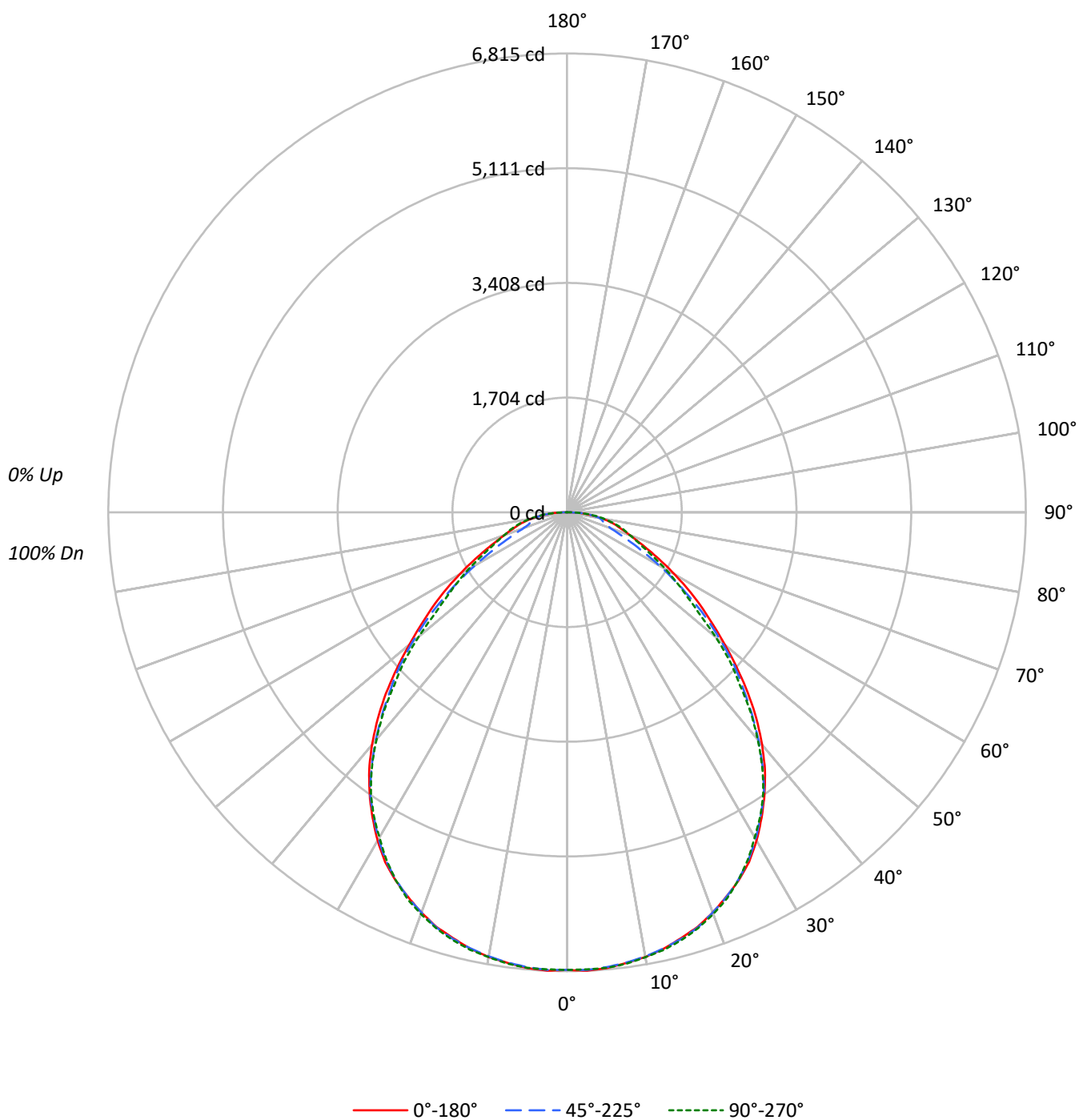
Input Watts (W): 144.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	10409	10409	10409
5°	10445	10422	10441
10°	10430	10414	10433
15°	10380	10399	10426
20°	10309	10309	10349
25°	10193	10173	10181
30°	9955	9903	9856
35°	9563	9536	9499
40°	9008	8843	8804
45°	8240	8014	7867
50°	7284	7140	6862
55°	6479	6038	5805
60°	5641	4831	5180
65°	4871	3746	4581
70°	4444	3064	4433
75°	4480	3303	4709
80°	4665	4302	4965
85°	4861	5116	5500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.6	4.1
10°-20°	1848.8	11.9
20°-30°	2767.4	17.8
30°-40°	3162.3	20.3
40°-50°	2859.0	18.4
50°-60°	2056.9	13.2
60°-70°	1192.5	7.7
70°-80°	707.4	4.5
80°-90°	313.3	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°	5260.9	33.8
0°-40°	8423.2	54.2
0°-60°	13339.1	85.8
0°-90°	15552.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15552.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6796	6796	6796	6796	6796	
5°	6793	6784	6779	6769	6791	645
15°	6546	6558	6558	6551	6575	1848
25°	6032	6024	6019	6007	6024	2773
35°	5114	5090	5100	5037	5080	3188
45°	3804	3739	3700	3666	3632	2923
55°	2426	2380	2261	2203	2174	2170
65°	1344	1194	1034	1155	1264	1357
75°	757	633	558	689	796	800
85°	277	298	291	335	313	296
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6795.8	6795.8	6795.8	6795.8	6795.8
2.5°	6815.2	6790.9	6803.0	6795.8	6793.4
5°	6793.4	6783.7	6778.8	6769.1	6790.9
7.5°	6749.7	6742.4	6744.8	6747.3	6761.8
10°	6706.0	6693.9	6696.3	6701.2	6708.4
12.5°	6638.1	6630.8	6633.3	6638.1	6655.1
15°	6545.9	6558.0	6558.0	6550.7	6575.0
17.5°	6453.7	6451.3	6463.4	6441.6	6475.5
20°	6325.1	6327.5	6325.1	6327.5	6349.4
22.5°	6179.5	6191.7	6184.3	6184.3	6208.7
25°	6031.5	6024.2	6019.4	6007.3	6024.2
27.5°	5854.4	5839.8	5827.7	5803.5	5815.6
30°	5628.8	5631.2	5599.6	5577.9	5573.0
32.5°	5376.5	5376.5	5347.3	5330.4	5344.9
35°	5114.4	5090.2	5099.9	5036.8	5080.4
37.5°	4830.5	4791.7	4769.9	4748.1	4762.6
40°	4505.5	4454.5	4423.0	4379.3	4403.5
42.5°	4163.3	4100.3	4061.4	4030.0	4039.6
45°	3804.3	3738.8	3700.0	3666.0	3632.0
47.5°	3425.8	3384.5	3365.2	3321.5	3282.6
50°	3057.0	3042.4	2996.3	2959.9	2879.9
52.5°	2719.8	2707.6	2634.9	2574.2	2472.3
55°	2426.2	2380.1	2261.2	2203.0	2173.9
57.5°	2127.8	2052.6	1909.5	1902.1	1921.6
60°	1841.5	1749.3	1577.1	1615.9	1691.1
62.5°	1581.9	1443.6	1278.6	1370.8	1460.5
65°	1344.1	1193.7	1033.5	1154.9	1264.0
67.5°	1147.6	997.2	832.2	994.8	1120.9
70°	992.4	839.4	684.2	871.0	989.9
72.5°	863.7	725.4	596.8	774.0	897.7
75°	757.0	633.2	558.1	689.0	795.8
77.5°	650.2	550.7	533.8	613.9	679.3
80°	528.9	482.8	487.7	538.6	562.9
82.5°	395.4	397.9	410.0	451.2	441.6
85°	276.6	298.4	291.1	334.8	313.0
87.5°	152.8	167.4	157.7	191.7	172.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)