

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: P231837

Luminaire Tested: **24GR-LD5-180-A125-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231837
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-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15371.4 lumens
Efficiency: N/A
Efficacy: 106.6 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

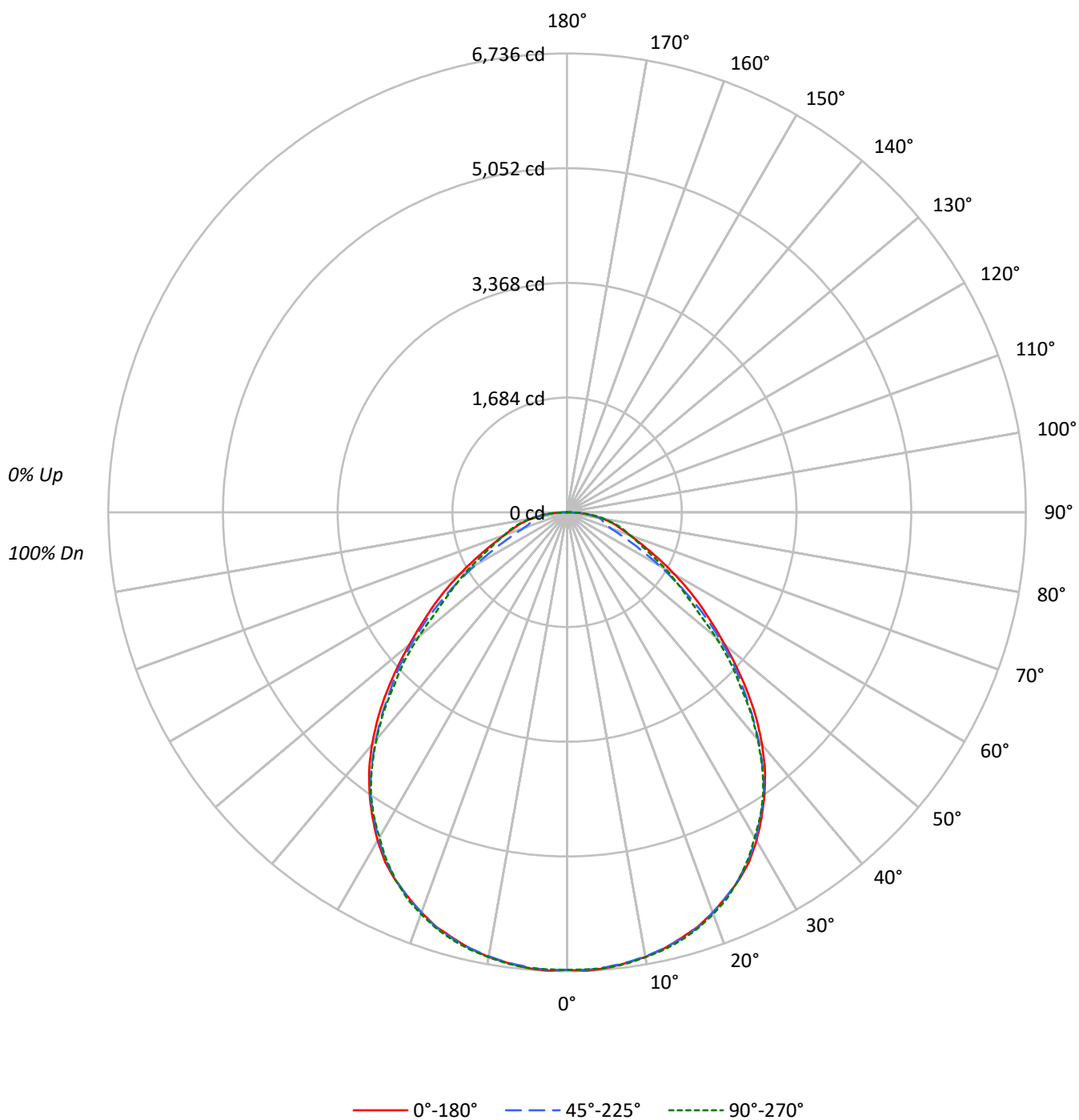
Input Watts (W): 144.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10288	10288	10288
5°	10323	10301	10319
10°	10308	10293	10312
15°	10259	10278	10305
20°	10190	10190	10229
25°	10075	10054	10062
30°	9839	9788	9742
35°	9452	9425	9389
40°	8904	8741	8702
45°	8145	7921	7776
50°	7200	7057	6782
55°	6403	5968	5737
60°	5575	4775	5120
65°	4815	3702	4528
70°	4392	3029	4381
75°	4428	3264	4654
80°	4611	4251	4907
85°	4805	5056	5435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.1	4.1
10°-20°	1827.3	11.9
20°-30°	2735.3	17.8
30°-40°	3125.5	20.3
40°-50°	2825.8	18.4
50°-60°	2033.0	13.2
60°-70°	1178.6	7.7
70°-80°	699.1	4.5
80°-90°	309.7	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°	5199.8	33.8
0°-40°	8325.3	54.2
0°-60°	13184.0	85.8
0°-90°	15371.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15371.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6717	6717	6717	6717	6717	
5°	6714	6705	6700	6690	6712	638
15°	6470	6482	6482	6474	6499	1826
25°	5961	5954	5949	5937	5954	2741
35°	5055	5031	5041	4978	5021	3151
45°	3760	3695	3657	3623	3590	2889
55°	2398	2352	2235	2177	2149	2145
65°	1328	1180	1022	1142	1249	1341
75°	748	626	552	681	786	791
85°	273	295	288	331	309	293
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6716.8	6716.8	6716.8	6716.8	6716.8
2.5°	6735.9	6711.9	6723.9	6716.8	6714.4
5°	6714.4	6704.8	6700.0	6690.4	6711.9
7.5°	6671.2	6664.0	6666.4	6668.8	6683.2
10°	6628.0	6616.1	6618.4	6623.3	6630.4
12.5°	6560.9	6553.7	6556.1	6560.9	6577.7
15°	6469.8	6481.8	6481.8	6474.5	6498.6
17.5°	6378.7	6376.3	6388.3	6366.7	6400.2
20°	6251.6	6254.0	6251.6	6254.0	6275.6
22.5°	6107.7	6119.7	6112.4	6112.4	6136.5
25°	5961.4	5954.2	5949.4	5937.4	5954.2
27.5°	5786.4	5771.9	5759.9	5736.0	5748.0
30°	5563.3	5565.7	5534.5	5513.0	5508.2
32.5°	5313.9	5313.9	5285.1	5268.4	5282.8
35°	5055.0	5031.0	5040.6	4978.2	5021.4
37.5°	4774.4	4736.0	4714.4	4692.8	4707.2
40°	4453.1	4402.7	4371.6	4328.4	4352.3
42.5°	4114.9	4052.6	4014.2	3983.1	3992.6
45°	3760.1	3695.3	3657.0	3623.4	3589.8
47.5°	3386.0	3345.2	3326.0	3282.9	3244.4
50°	3021.5	3007.0	2961.5	2925.5	2846.4
52.5°	2688.1	2676.1	2604.2	2544.3	2443.6
55°	2398.0	2352.5	2234.9	2177.4	2148.6
57.5°	2103.1	2028.7	1887.3	1880.0	1899.2
60°	1820.1	1729.0	1558.7	1597.1	1671.4
62.5°	1563.5	1426.8	1263.8	1354.9	1443.6
65°	1328.5	1179.8	1021.5	1141.5	1249.3
67.5°	1134.2	985.6	822.5	983.2	1107.9
70°	980.8	829.7	676.3	860.9	978.4
72.5°	853.7	717.0	589.9	765.0	887.2
75°	748.2	625.9	551.6	681.0	786.5
77.5°	642.7	544.3	527.6	606.7	671.4
80°	522.8	477.2	482.0	532.4	556.3
82.5°	390.8	393.3	405.3	446.0	436.5
85°	273.4	295.0	287.7	330.9	309.3
87.5°	151.0	165.5	155.9	189.5	170.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)