

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: P231853

Luminaire Tested: **24GR-LD5-130-A19/156-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A19/156-UNV-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10994.8 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

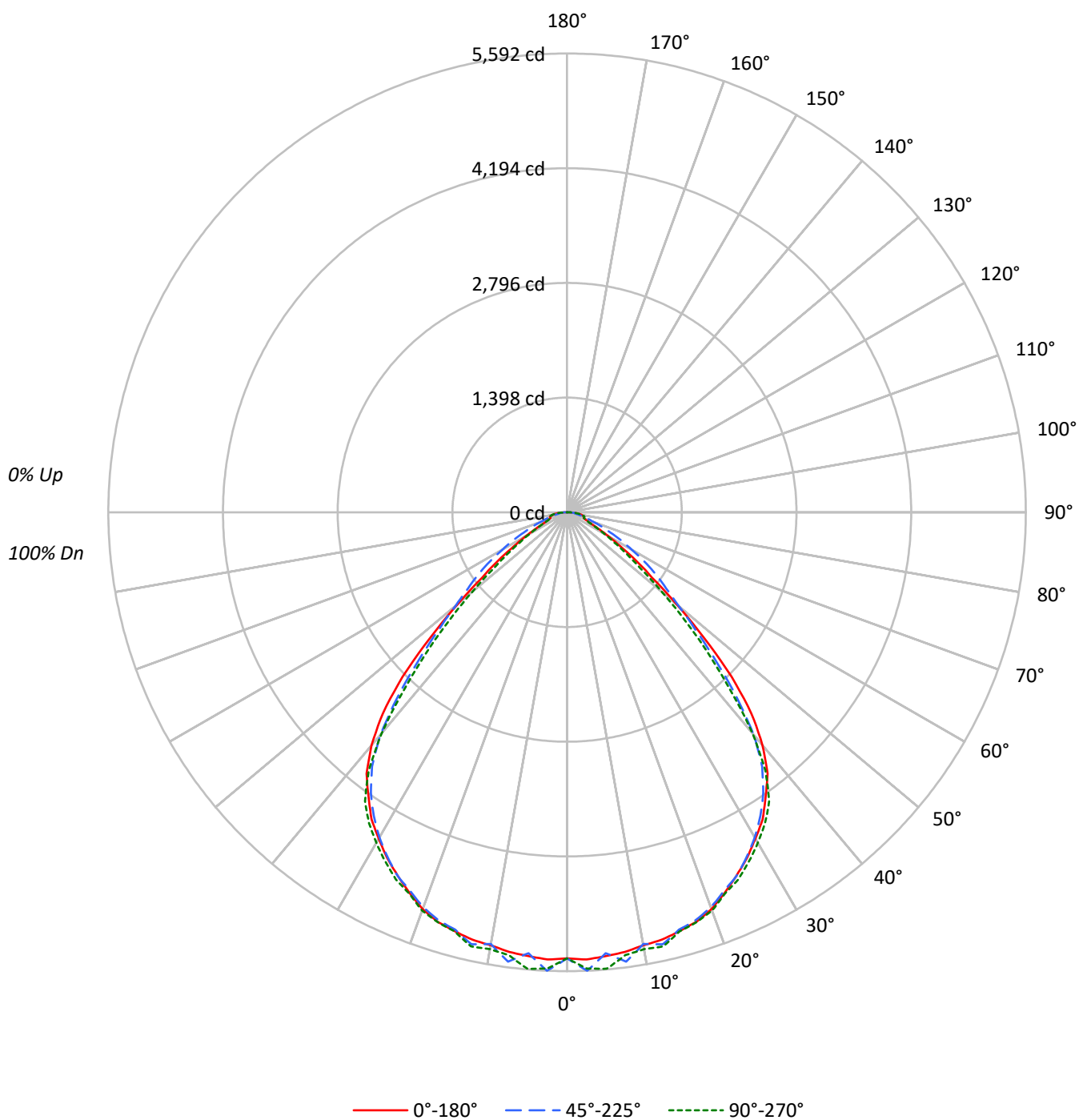
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	111	107	103	100	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	86	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	78	73		82	77	72		79	75	71		77	73	70
4	88	78	71	65	86	77	70	64		74	68	64		72	67	63		70	66	62
5	82	71	63	57	80	70	62	57		68	61	56		66	60	56		64	59	55
6	76	65	57	51	75	64	56	51		62	55	50		60	55	50		59	54	50
7	71	59	51	46	70	58	51	46		57	50	45		56	50	45		54	49	45
8	67	55	47	42	65	54	47	41		53	46	41		51	45	41		50	45	41
9	63	50	43	38	61	50	43	38		49	42	38		48	42	37		47	41	37
10	59	47	39	35	58	46	39	35		45	39	34		44	38	34		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8327	8327	8327
5°	8345	8291	8584
10°	8332	8307	8409
15°	8380	8352	8385
20°	8386	8352	8421
25°	8257	8263	8343
30°	8119	8094	8225
35°	7890	7795	8029
40°	7410	7078	7039
45°	6142	5557	5270
50°	4132	4216	3602
55°	2725	3536	2362
60°	1747	2791	1617
65°	1126	2131	1094
70°	996	1526	996
75°	1285	1212	1296
80°	1573	1043	1651
85°	1831	1552	1924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.5	4.7
10°-20°	1494.6	13.6
20°-30°	2250.2	20.5
30°-40°	2608.1	23.7
40°-50°	2037.4	18.5
50°-60°	1087.9	9.9
60°-70°	559.4	5.1
70°-80°	316.5	2.9
80°-90°	120.2	1.1
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°	4265.4	38.8
0°-40°	6873.5	62.5
0°-60°	9998.7	90.9
0°-90°	10994.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10994.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5437	5437	5437	5437	5437	
5°	5428	5580	5392	5541	5583	516
15°	5285	5318	5267	5301	5288	1493
25°	4886	4870	4889	4882	4937	2251
35°	4220	4201	4169	4252	4294	2631
45°	2836	2838	2566	2543	2433	2137
55°	1021	1291	1324	1194	885	942
65°	311	648	588	646	302	342
75°	217	408	205	381	219	220
85°	104	136	88	136	110	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5436.6	5436.6	5436.6	5436.6	5436.6
2.5°	5454.3	5553.1	5592.0	5544.3	5565.5
5°	5427.8	5579.6	5392.5	5540.7	5583.1
7.5°	5403.0	5387.1	5523.1	5381.9	5441.9
10°	5357.1	5367.8	5341.2	5441.9	5406.6
12.5°	5336.0	5397.8	5392.5	5341.2	5418.9
15°	5284.7	5318.3	5267.1	5300.6	5288.3
17.5°	5233.5	5217.6	5212.4	5226.5	5238.8
20°	5145.2	5092.3	5124.1	5127.6	5166.5
22.5°	5018.1	4986.4	4993.4	5025.2	5028.7
25°	4885.7	4869.8	4889.2	4882.1	4936.9
27.5°	4747.9	4726.8	4739.2	4765.6	4799.2
30°	4590.8	4585.5	4576.7	4599.6	4650.9
32.5°	4435.5	4393.1	4386.0	4433.7	4491.9
35°	4220.0	4200.6	4168.8	4251.8	4294.2
37.5°	4015.2	3955.1	3904.0	3953.4	3971.0
40°	3706.2	3660.3	3540.2	3545.5	3520.8
42.5°	3326.6	3293.1	3063.5	3022.9	2954.0
45°	2835.7	2837.5	2565.6	2542.6	2433.1
47.5°	2265.4	2366.1	2129.4	2103.0	1940.5
50°	1733.9	1915.8	1769.2	1726.9	1511.5
52.5°	1301.4	1567.9	1522.0	1430.2	1133.6
55°	1020.6	1290.7	1324.3	1193.7	884.6
57.5°	768.1	1062.9	1117.7	1010.0	683.3
60°	570.4	895.2	911.1	868.7	527.9
62.5°	423.8	761.0	739.8	745.1	392.0
65°	310.8	648.0	587.9	646.3	301.9
67.5°	254.2	561.5	457.3	559.7	245.4
70°	222.4	497.9	340.8	492.7	222.4
72.5°	215.4	457.3	270.1	437.9	217.2
75°	217.2	407.9	204.8	381.4	219.0
77.5°	199.5	335.5	155.4	324.9	208.3
80°	178.3	254.2	118.3	257.8	187.2
82.5°	151.8	185.4	95.4	190.7	157.2
85°	104.2	136.0	88.3	136.0	109.5
87.5°	49.5	81.3	54.7	77.7	56.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)