

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: P231855

Luminaire Tested: **24GR-LD5-130-A19/156-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231855
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-L950-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: 12947.4 lumens
Efficiency: N/A
Efficacy: 130.5 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

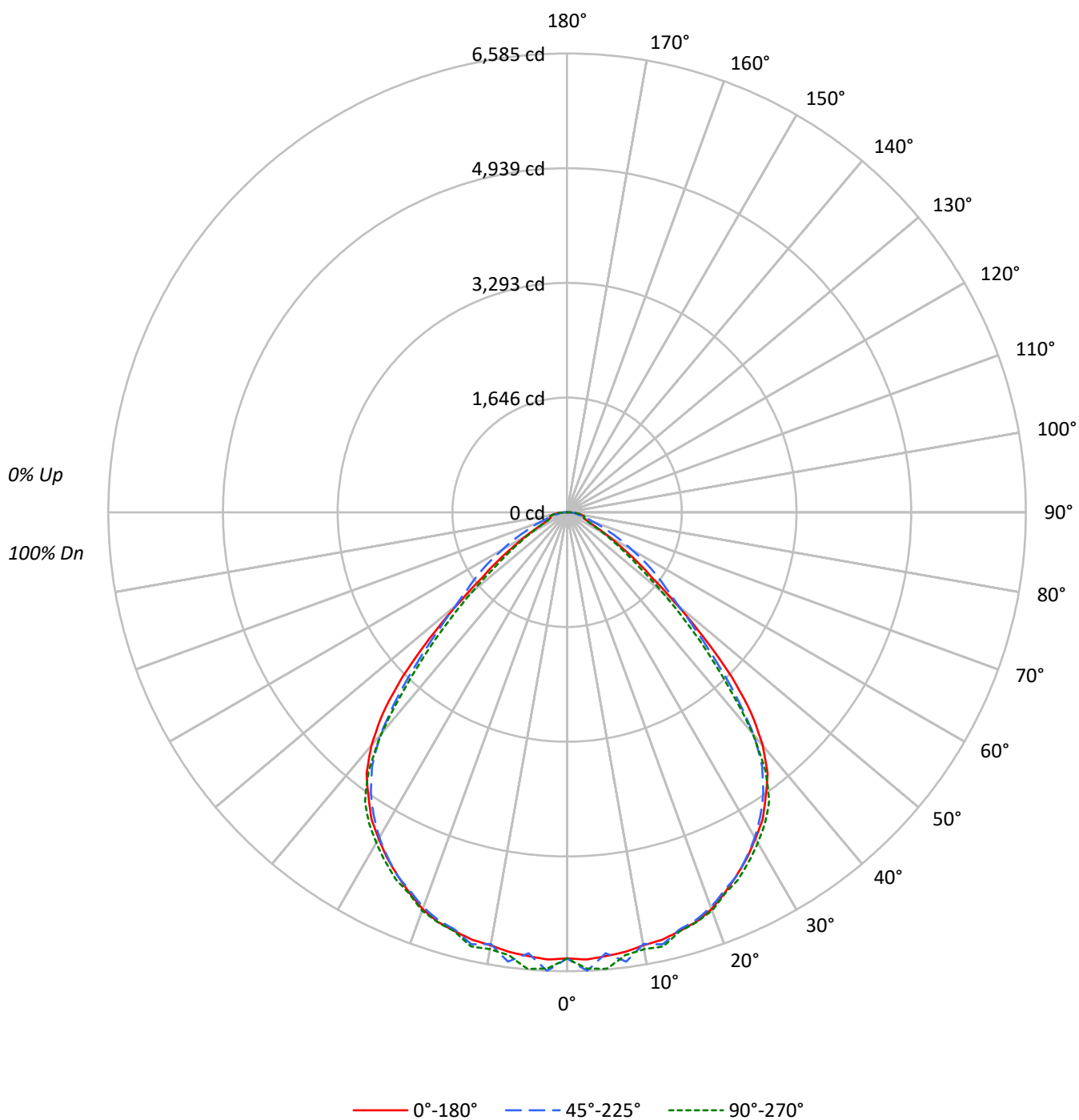
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9806	9806	9806
5°	9827	9763	10109
10°	9811	9782	9902
15°	9868	9835	9875
20°	9876	9835	9916
25°	9723	9730	9825
30°	9561	9532	9686
35°	9292	9179	9455
40°	8726	8335	8290
45°	7233	6544	6206
50°	4865	4964	4241
55°	3209	4164	2782
60°	2057	3287	1904
65°	1326	2509	1288
70°	1173	1797	1173
75°	1513	1427	1526
80°	1852	1229	1944
85°	2156	1826	2265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.0	4.7
10°-20°	1760.1	13.6
20°-30°	2649.8	20.5
30°-40°	3071.3	23.7
40°-50°	2399.2	18.5
50°-60°	1281.1	9.9
60°-70°	658.8	5.1
70°-80°	372.7	2.9
80°-90°	141.5	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°	5022.9	38.8
0°-40°	8094.2	62.5
0°-60°	11774.5	90.9
0°-90°	12947.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12947.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6402	6402	6402	6402	6402	
5°	6392	6571	6350	6525	6575	608
15°	6223	6263	6203	6242	6228	1758
25°	5753	5735	5758	5749	5814	2651
35°	4970	4947	4909	5007	5057	3098
45°	3339	3341	3021	2994	2865	2516
55°	1202	1520	1560	1406	1042	1109
65°	366	763	692	761	356	402
75°	256	480	241	449	258	259
85°	123	160	104	160	129	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6402.1	6402.1	6402.1	6402.1	6402.1
2.5°	6423.0	6539.4	6585.1	6529.0	6553.9
5°	6391.7	6570.6	6350.2	6524.8	6574.8
7.5°	6362.6	6344.0	6504.0	6337.7	6408.4
10°	6308.6	6321.0	6289.9	6408.4	6366.8
12.5°	6283.6	6356.4	6350.2	6289.9	6381.4
15°	6223.3	6262.8	6202.6	6242.1	6227.5
17.5°	6163.1	6144.3	6138.1	6154.7	6169.3
20°	6059.1	5996.7	6034.1	6038.3	6084.0
22.5°	5909.4	5872.0	5880.2	5917.6	5921.8
25°	5753.4	5734.7	5757.6	5749.3	5813.7
27.5°	5591.2	5566.3	5580.8	5612.1	5651.6
30°	5406.2	5399.9	5389.6	5416.6	5476.8
32.5°	5223.2	5173.3	5165.0	5221.1	5289.7
35°	4969.5	4946.7	4909.2	5006.9	5056.9
37.5°	4728.4	4657.7	4597.3	4655.6	4676.3
40°	4364.5	4310.4	4169.0	4175.3	4146.1
42.5°	3917.4	3877.9	3607.6	3559.7	3478.7
45°	3339.3	3341.4	3021.2	2994.2	2865.3
47.5°	2667.8	2786.2	2507.6	2476.5	2285.2
50°	2041.9	2256.1	2083.4	2033.6	1779.9
52.5°	1532.4	1846.4	1792.3	1684.2	1334.9
55°	1201.8	1520.0	1559.5	1405.6	1041.8
57.5°	904.5	1251.7	1316.2	1189.4	804.7
60°	671.6	1054.2	1072.9	1023.0	621.7
62.5°	499.0	896.2	871.2	877.4	461.6
65°	365.9	763.1	692.4	761.0	355.5
67.5°	299.4	661.2	538.5	659.1	289.0
70°	262.0	586.4	401.3	580.1	262.0
72.5°	253.7	538.5	318.1	515.7	255.7
75°	255.7	480.3	241.2	449.1	257.8
77.5°	235.0	395.0	183.0	382.6	245.3
80°	210.0	299.4	139.3	303.6	220.4
82.5°	178.8	218.3	112.3	224.6	185.1
85°	122.7	160.1	103.9	160.1	128.9
87.5°	58.2	95.6	64.4	91.5	66.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)