

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: P231856

Luminaire Tested: **24GR-LD5-150-A19/156-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231856
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-LD5-150-A19/156-UNV-L930-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: 11777.6 lumens
Efficiency: N/A
Efficacy: 97.9 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

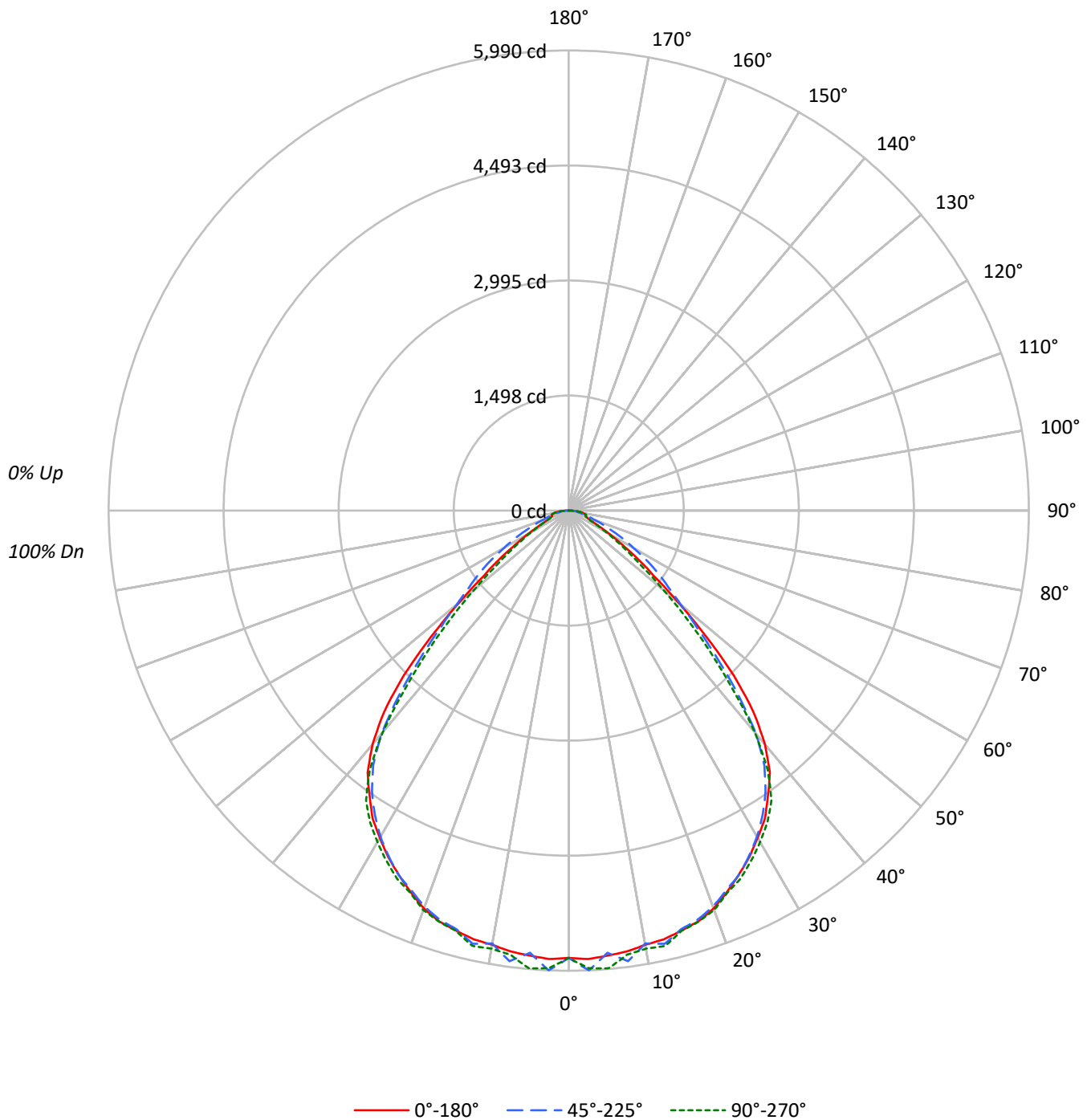
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68		68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60		60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53		53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48		48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43		43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39		39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36		36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8920	8920	8920
5°	8939	8881	9195
10°	8925	8898	9007
15°	8976	8947	8982
20°	8983	8946	9020
25°	8845	8851	8937
30°	8697	8671	8811
35°	8452	8350	8601
40°	7938	7582	7541
45°	6580	5953	5646
50°	4426	4516	3858
55°	2919	3788	2530
60°	1871	2990	1733
65°	1206	2282	1172
70°	1067	1635	1067
75°	1376	1298	1388
80°	1686	1118	1768
85°	1961	1661	2061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.6	4.7
10°-20°	1601.1	13.6
20°-30°	2410.4	20.5
30°-40°	2793.8	23.7
40°-50°	2182.4	18.5
50°-60°	1165.3	9.9
60°-70°	599.3	5.1
70°-80°	339.0	2.9
80°-90°	128.7	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°	4569.1	38.8
0°-40°	7362.9	62.5
0°-60°	10710.6	90.9
0°-90°	11777.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11777.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5824	5824	5824	5824	5824	
5°	5814	5977	5776	5935	5981	553
15°	5661	5697	5642	5678	5665	1599
25°	5234	5217	5237	5230	5288	2412
35°	4520	4500	4466	4554	4600	2818
45°	3038	3040	2748	2724	2606	2289
55°	1093	1383	1419	1279	948	1009
65°	333	694	630	692	323	366
75°	233	437	219	408	234	236
85°	112	146	94	146	117	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5823.7	5823.7	5823.7	5823.7	5823.7
2.5°	5842.7	5948.5	5990.2	5939.1	5961.8
5°	5814.3	5976.9	5776.4	5935.3	5980.7
7.5°	5787.8	5770.8	5916.4	5765.1	5829.4
10°	5738.6	5749.9	5721.5	5829.4	5791.6
12.5°	5715.9	5782.1	5776.4	5721.5	5804.8
15°	5661.0	5697.0	5642.2	5678.1	5664.8
17.5°	5606.2	5589.2	5583.5	5598.6	5611.9
20°	5511.6	5454.9	5488.9	5492.7	5534.3
22.5°	5375.4	5341.4	5348.9	5383.0	5386.8
25°	5233.6	5216.6	5237.3	5229.8	5288.4
27.5°	5086.0	5063.3	5076.6	5105.0	5140.9
30°	4917.7	4912.0	4902.6	4927.2	4982.0
32.5°	4751.2	4705.9	4698.4	4749.4	4811.8
35°	4520.5	4499.8	4465.6	4554.5	4600.0
37.5°	4301.1	4236.8	4181.9	4234.9	4253.8
40°	3970.1	3920.9	3792.3	3798.0	3771.5
42.5°	3563.5	3527.6	3281.6	3238.1	3164.4
45°	3037.6	3039.5	2748.2	2723.6	2606.4
47.5°	2426.7	2534.5	2281.1	2252.7	2078.7
50°	1857.4	2052.2	1895.2	1849.8	1619.1
52.5°	1394.0	1679.6	1630.4	1532.1	1214.3
55°	1093.2	1382.6	1418.6	1278.6	947.6
57.5°	822.8	1138.7	1197.3	1081.9	732.0
60°	610.9	959.0	976.0	930.6	565.6
62.5°	454.0	815.2	792.5	798.2	419.9
65°	332.9	694.1	629.8	692.2	323.4
67.5°	272.4	601.5	489.9	599.6	262.9
70°	238.3	533.4	365.1	527.7	238.3
72.5°	230.7	489.9	289.4	469.0	232.6
75°	232.6	436.9	219.4	408.5	234.5
77.5°	213.7	359.4	166.5	348.0	223.2
80°	191.1	272.4	126.7	276.2	200.5
82.5°	162.7	198.6	102.2	204.3	168.3
85°	111.6	145.6	94.5	145.6	117.3
87.5°	53.0	87.0	58.6	83.2	60.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)