

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: P234160

Luminaire Tested: **22GR-LD5-90-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-A19/156-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8861.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

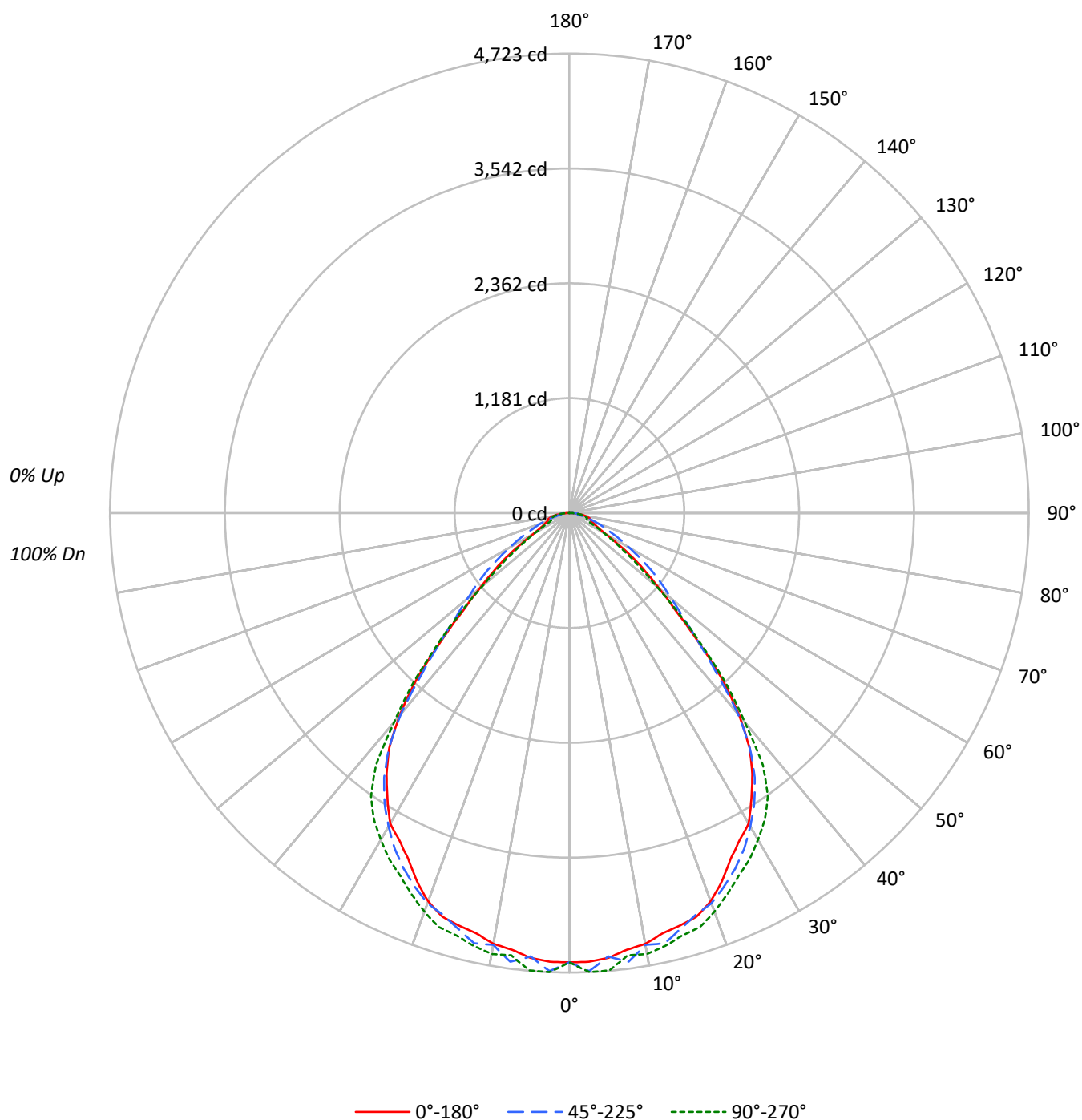
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90	88		88
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77		77
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60		60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54		54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40		40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14791	14791	14791
5°	14753	14706	15170
10°	14619	14659	14965
15°	14551	14662	14897
20°	14474	14545	14858
25°	13856	14247	14542
30°	13628	13751	14338
35°	12816	12979	13901
40°	11356	11277	11723
45°	8482	8501	8738
50°	5971	6793	5784
55°	4406	5736	3952
60°	2755	4533	2581
65°	2247	3591	1804
70°	2229	2992	1779
75°	2764	2196	2299
80°	3082	1734	2811
85°	3068	3222	3145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.7	5.0
10°-20°	1252.3	14.1
20°-30°	1854.8	20.9
30°-40°	2077.6	23.4
40°-50°	1526.6	17.2
50°-60°	853.3	9.6
60°-70°	475.6	5.4
70°-80°	279.4	3.2
80°-90°	102.7	1.2
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°	3546.7	40.0
0°-40°	5624.3	63.5
0°-60°	8004.2	90.3
0°-90°	8861.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8861.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4618	4618	4618	4618	4618	
5°	4589	4675	4575	4669	4719	434
15°	4389	4416	4422	4489	4493	1240
25°	3921	3952	4032	4088	4115	1817
35°	3278	3280	3320	3470	3556	2031
45°	1873	2025	1877	2011	1929	1463
55°	789	960	1027	1025	708	704
65°	296	526	474	608	238	307
75°	223	315	178	357	186	224
85°	84	123	88	113	86	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4618.5	4618.5	4618.5	4618.5	4618.5
2.5°	4616.4	4658.2	4712.5	4718.8	4723.0
5°	4589.3	4674.9	4574.7	4668.7	4718.8
7.5°	4526.7	4578.8	4651.9	4558.0	4585.1
10°	4495.4	4507.9	4507.9	4624.8	4601.9
12.5°	4424.3	4507.9	4528.8	4505.8	4555.9
15°	4388.8	4416.0	4422.3	4489.1	4493.3
17.5°	4349.2	4343.0	4328.3	4376.4	4461.9
20°	4246.9	4223.9	4267.8	4326.2	4359.6
22.5°	4096.5	4102.8	4155.1	4203.0	4240.6
25°	3921.2	3952.5	4031.8	4088.2	4115.4
27.5°	3789.6	3835.6	3889.9	3956.7	4010.9
30°	3685.2	3681.0	3718.6	3814.7	3877.3
32.5°	3482.7	3497.3	3537.0	3651.8	3739.6
35°	3278.1	3280.2	3319.9	3470.2	3555.8
37.5°	3042.1	3025.5	3048.4	3211.3	3267.6
40°	2716.4	2720.6	2697.6	2812.4	2804.2
42.5°	2336.4	2369.8	2250.8	2401.1	2390.7
45°	1872.9	2025.3	1877.1	2010.7	1929.3
47.5°	1478.3	1703.8	1580.6	1678.7	1526.3
50°	1198.5	1430.2	1363.5	1407.3	1160.9
52.5°	983.4	1171.4	1192.2	1202.7	906.2
55°	789.2	960.4	1027.3	1025.2	707.8
57.5°	582.6	780.9	858.1	889.4	536.6
60°	430.2	649.4	707.8	776.7	402.9
62.5°	346.6	570.0	584.6	680.7	306.9
65°	296.5	526.2	473.9	607.6	238.1
67.5°	263.1	490.7	386.3	542.9	202.6
70°	238.1	436.3	319.5	486.5	190.0
72.5°	231.8	371.6	246.3	434.3	187.9
75°	223.4	315.3	177.5	357.1	185.8
77.5°	192.1	269.4	127.4	275.6	173.3
80°	167.1	215.0	94.0	206.8	152.4
82.5°	129.5	162.9	83.5	156.6	123.2
85°	83.5	123.2	87.7	112.7	85.6
87.5°	39.7	68.9	62.6	60.5	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)