

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: P231852

Luminaire Tested: **24GR-LD5-130-A19/156-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231852
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-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: 10203.3 lumens
Efficiency: N/A
Efficacy: 102.9 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

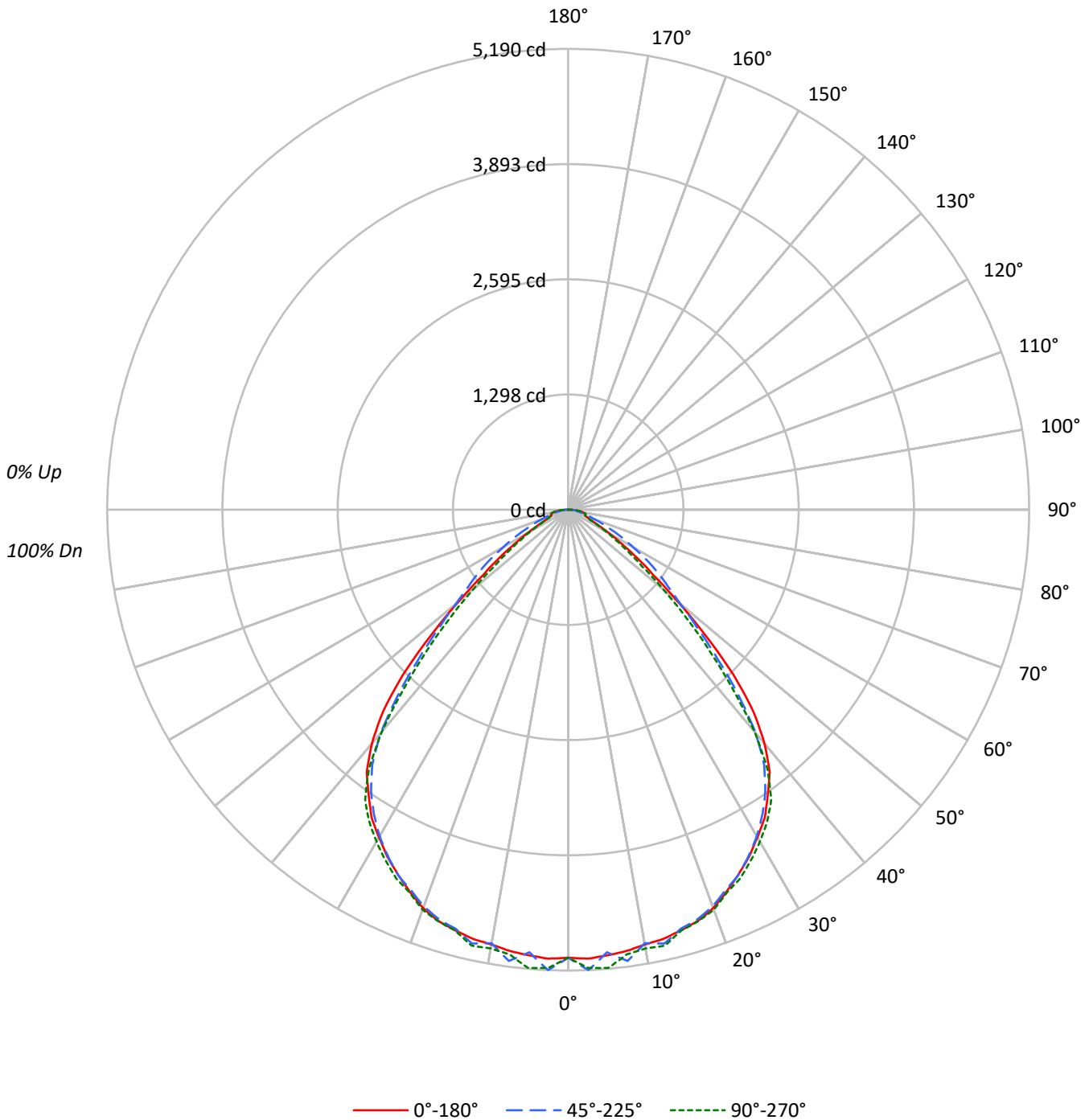
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
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°	7727	7727	7727
5°	7744	7694	7966
10°	7732	7709	7803
15°	7777	7751	7782
20°	7783	7751	7815
25°	7662	7668	7743
30°	7535	7511	7633
35°	7322	7234	7451
40°	6877	6569	6533
45°	5700	5157	4891
50°	3834	3912	3342
55°	2529	3282	2192
60°	1621	2590	1501
65°	1045	1977	1015
70°	925	1416	925
75°	1193	1125	1202
80°	1460	968	1532
85°	1699	1439	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	4.7
10°-20°	1387.0	13.6
20°-30°	2088.2	20.5
30°-40°	2420.3	23.7
40°-50°	1890.7	18.5
50°-60°	1009.6	9.9
60°-70°	519.2	5.1
70°-80°	293.7	2.9
80°-90°	111.5	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°	3958.3	38.8
0°-40°	6378.6	62.5
0°-60°	9278.9	90.9
0°-90°	10203.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10203.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5045	5045	5045	5045	5045	
5°	5037	5178	5004	5142	5181	479
15°	4904	4935	4888	4919	4908	1385
25°	4534	4519	4537	4531	4582	2089
35°	3916	3898	3869	3946	3985	2441
45°	2632	2633	2381	2360	2258	1983
55°	947	1198	1229	1108	821	874
65°	288	601	546	600	280	317
75°	202	378	190	354	203	204
85°	97	126	82	126	102	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5045.2	5045.2	5045.2	5045.2	5045.2
2.5°	5061.6	5153.4	5189.5	5145.2	5164.9
5°	5037.0	5178.0	5004.2	5141.9	5181.3
7.5°	5014.1	4999.4	5125.5	4994.5	5050.1
10°	4971.5	4981.3	4956.7	5050.1	5017.3
12.5°	4951.8	5009.1	5004.2	4956.7	5028.8
15°	4904.3	4935.4	4887.9	4919.0	4907.6
17.5°	4856.8	4842.0	4837.1	4850.2	4861.7
20°	4774.9	4725.7	4755.2	4758.5	4794.5
22.5°	4656.9	4627.3	4633.9	4663.4	4666.7
25°	4533.9	4519.3	4537.2	4530.7	4581.5
27.5°	4406.2	4386.5	4398.0	4422.6	4453.7
30°	4260.3	4255.4	4247.2	4268.5	4316.1
32.5°	4116.2	4076.8	4070.2	4114.5	4168.6
35°	3916.2	3898.2	3868.7	3945.8	3985.0
37.5°	3726.2	3670.4	3622.9	3668.8	3685.2
40°	3439.4	3396.8	3285.4	3290.2	3267.4
42.5°	3087.1	3056.0	2842.9	2805.3	2741.3
45°	2631.5	2633.2	2380.9	2359.5	2258.0
47.5°	2102.3	2195.7	1976.1	1951.6	1800.8
50°	1609.1	1777.8	1641.9	1602.5	1402.6
52.5°	1207.6	1455.1	1412.4	1327.3	1052.0
55°	947.1	1197.8	1228.9	1107.7	820.9
57.5°	712.8	986.5	1037.2	937.3	634.1
60°	529.2	830.7	845.5	806.2	490.0
62.5°	393.3	706.3	686.6	691.5	363.8
65°	288.4	601.4	545.6	599.7	280.2
67.5°	236.0	521.1	424.4	519.5	227.8
70°	206.5	462.1	316.3	457.2	206.5
72.5°	199.9	424.4	250.7	406.4	201.6
75°	201.6	378.5	190.1	353.9	203.2
77.5°	185.2	311.4	144.2	301.5	193.4
80°	165.5	236.0	109.8	239.2	173.7
82.5°	141.0	172.0	88.5	177.0	145.8
85°	96.7	126.2	81.9	126.2	101.6
87.5°	45.9	75.4	50.8	72.1	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)