

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: P231788

Luminaire Tested: **24GR-LD5-150-F1-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-F1-UNV-L930-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12100.7 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

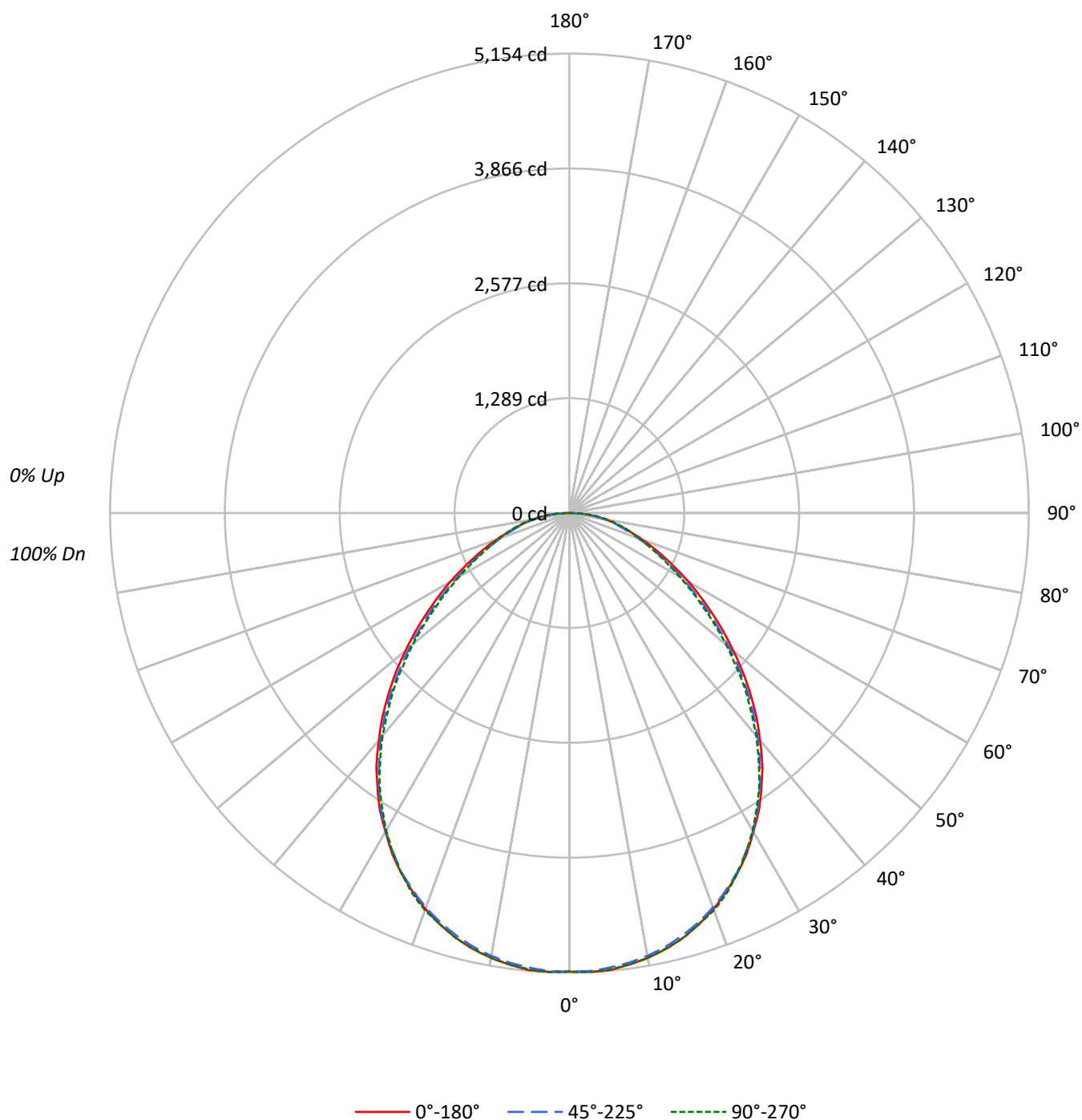
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	92	86	81	98	91	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	90	80	73	68		78	71	66		75	70	65		72	68	64
4	85	73	65	59	82	72	64	58		70	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	58	45	38	33		44	37	32		43	37	32		42	36	32
10	55	43	35	30	54	42	35	30		41	34	30		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7877	7877	7877
5°	7913	7869	7901
10°	7881	7843	7878
15°	7819	7777	7825
20°	7704	7673	7729
25°	7537	7518	7534
30°	7299	7286	7269
35°	7024	6970	6942
40°	6648	6573	6520
45°	6219	6105	6031
50°	5715	5561	5467
55°	5212	5020	4874
60°	4734	4479	4363
65°	4264	4024	3955
70°	3905	3651	3752
75°	3649	3481	3738
80°	3620	3554	3904
85°	3689	3722	4255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.7	4.0
10°-20°	1383.8	11.4
20°-30°	2044.2	16.9
30°-40°	2324.1	19.2
40°-50°	2170.4	17.9
50°-60°	1687.8	13.9
60°-70°	1119.9	9.3
70°-80°	648.1	5.4
80°-90°	235.7	1.9
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°	3914.7	32.4
0°-40°	6238.8	51.6
0°-60°	10097.0	83.4
0°-90°	12100.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12100.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5143	5143	5143	5143	5143	
5°	5147	5120	5118	5128	5139	488
15°	4931	4906	4904	4903	4935	1389
25°	4460	4441	4449	4439	4458	2051
35°	3756	3738	3728	3702	3713	2345
45°	2871	2848	2818	2782	2784	2212
55°	1952	1924	1880	1831	1825	1750
65°	1176	1140	1110	1090	1091	1176
75°	617	602	588	615	632	660
85°	210	206	212	240	242	228
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5142.8	5142.8	5142.8	5142.8	5142.8
2.5°	5150.3	5135.2	5142.8	5137.1	5154.2
5°	5146.6	5120.1	5118.2	5127.7	5139.0
7.5°	5110.6	5082.3	5087.9	5087.9	5106.9
10°	5067.2	5038.8	5042.6	5044.5	5065.3
12.5°	5008.6	4980.2	4982.1	4980.2	5000.9
15°	4931.0	4906.4	4904.5	4902.6	4934.8
17.5°	4836.4	4802.3	4813.7	4815.6	4832.6
20°	4726.7	4700.2	4707.8	4705.9	4741.8
22.5°	4596.2	4577.2	4583.0	4579.1	4613.2
25°	4460.0	4441.1	4448.7	4439.2	4458.1
27.5°	4306.8	4293.5	4286.0	4280.3	4293.5
30°	4127.1	4119.5	4119.5	4095.0	4110.1
32.5°	3956.9	3932.3	3932.3	3922.8	3913.4
35°	3756.4	3737.5	3728.0	3701.6	3712.9
37.5°	3555.9	3512.4	3508.6	3487.8	3487.8
40°	3325.2	3300.6	3287.3	3264.6	3260.8
42.5°	3105.8	3081.1	3058.4	3020.6	3013.1
45°	2871.2	2848.5	2818.3	2782.3	2784.2
47.5°	2638.5	2606.4	2578.0	2534.5	2528.9
50°	2398.3	2375.6	2334.0	2296.2	2294.3
52.5°	2173.2	2137.3	2099.5	2054.1	2054.1
55°	1951.9	1923.6	1880.1	1830.9	1825.2
57.5°	1740.1	1713.6	1664.4	1628.5	1619.1
60°	1545.3	1507.5	1462.1	1431.8	1424.3
62.5°	1350.5	1316.4	1282.4	1252.1	1250.3
65°	1176.5	1140.5	1110.3	1089.5	1091.3
67.5°	1019.5	989.2	955.1	949.5	951.4
70°	872.0	839.8	815.2	828.4	837.9
72.5°	732.0	715.0	697.9	716.8	730.1
75°	616.6	601.5	588.3	614.8	631.7
77.5°	510.7	499.3	497.4	520.1	535.3
80°	410.4	397.2	402.9	429.4	442.6
82.5°	312.1	302.7	304.5	336.7	346.1
85°	209.9	206.1	211.8	240.2	242.1
87.5°	111.6	111.6	115.4	132.4	126.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)