

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: P231830

Luminaire Tested: **24GR-LD5-130-A125-UNV-L940-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A125-UNV-L940-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11450.9 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

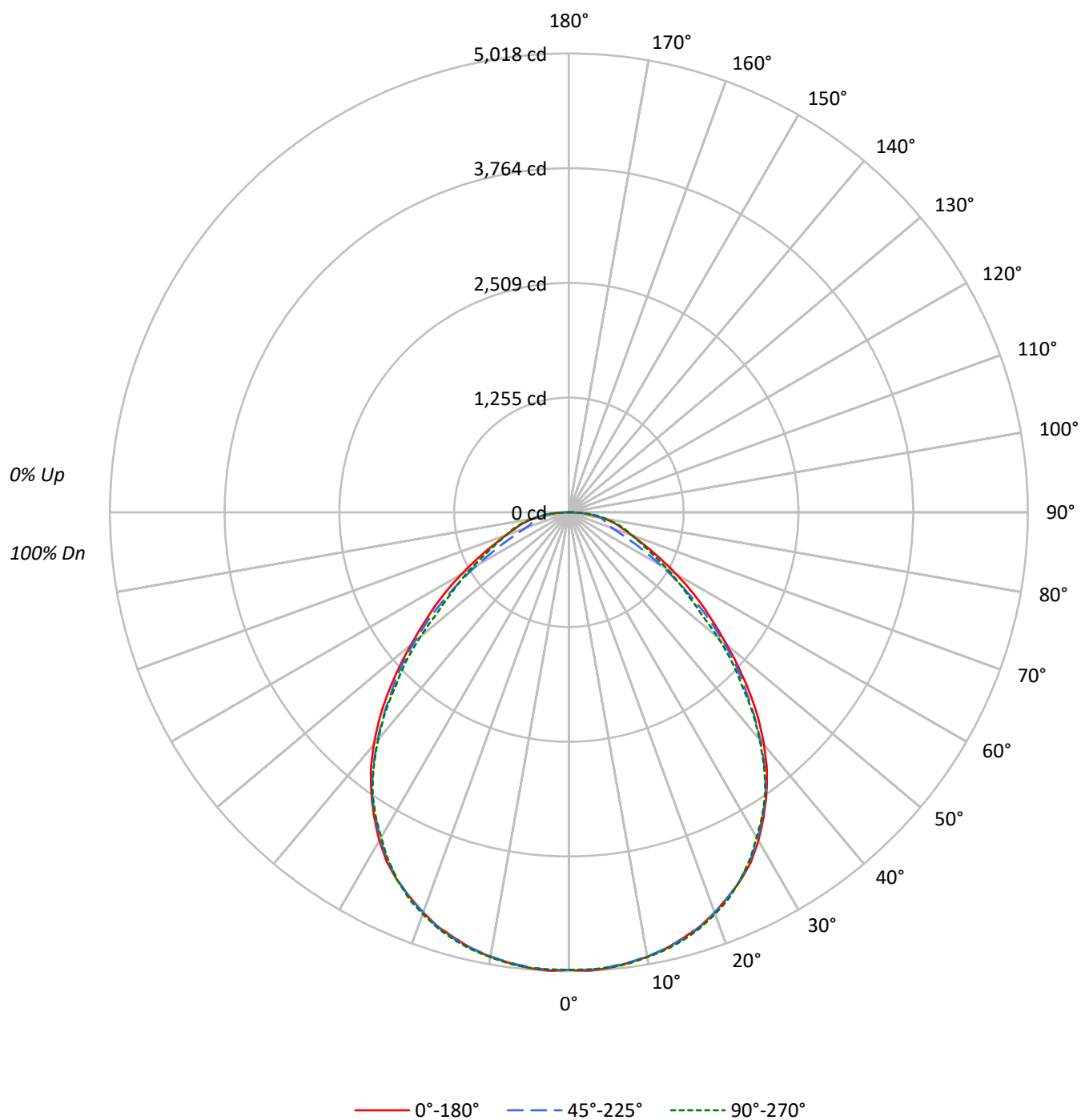
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96		99	96	93		95	93	90		91	90	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	79	76
3	93	83	76	70	90	82	75	69		79	73	68		76	71	67		73	69	66
4	86	75	66	60	83	73	66	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	47	72	60	52	46		58	51	46		57	50	46		55	50	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7664	7664	7664
5°	7690	7674	7687
10°	7679	7668	7682
15°	7642	7656	7676
20°	7591	7591	7620
25°	7505	7490	7496
30°	7330	7292	7257
35°	7041	7021	6994
40°	6633	6511	6483
45°	6067	5901	5792
50°	5363	5257	5052
55°	4770	4446	4274
60°	4153	3557	3814
65°	3587	2758	3373
70°	3272	2256	3264
75°	3299	2432	3467
80°	3435	3166	3655
85°	3578	3768	4051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.6	4.1
10°-20°	1361.3	11.9
20°-30°	2037.6	17.8
30°-40°	2328.3	20.3
40°-50°	2105.1	18.4
50°-60°	1514.5	13.2
60°-70°	878.0	7.7
70°-80°	520.8	4.5
80°-90°	230.7	2.0
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°	3873.5	33.8
0°-40°	6201.9	54.2
0°-60°	9821.4	85.8
0°-90°	11450.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11450.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5004	5004	5004	5004	5004	
5°	5002	4995	4991	4984	5000	475
15°	4820	4829	4829	4823	4841	1361
25°	4441	4436	4432	4423	4436	2042
35°	3766	3748	3755	3708	3741	2348
45°	2801	2753	2724	2699	2674	2152
55°	1786	1752	1665	1622	1601	1598
65°	990	879	761	850	931	999
75°	557	466	411	507	586	589
85°	204	220	214	247	230	218
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5003.7	5003.7	5003.7	5003.7	5003.7
2.5°	5017.9	5000.0	5009.0	5003.7	5001.8
5°	5001.8	4994.7	4991.2	4984.0	5000.0
7.5°	4969.7	4964.4	4966.2	4967.9	4978.6
10°	4937.5	4928.7	4930.4	4934.0	4939.3
12.5°	4887.6	4882.1	4883.9	4887.6	4900.0
15°	4819.6	4828.6	4828.6	4823.2	4841.1
17.5°	4751.8	4750.0	4758.9	4742.8	4767.8
20°	4657.1	4658.9	4657.1	4658.9	4675.0
22.5°	4549.9	4558.9	4553.4	4553.4	4571.3
25°	4441.0	4435.5	4432.0	4423.1	4435.5
27.5°	4310.5	4299.8	4290.9	4273.0	4281.9
30°	4144.4	4146.1	4122.9	4106.8	4103.3
32.5°	3958.6	3958.6	3937.2	3924.7	3935.4
35°	3765.7	3747.8	3754.9	3708.5	3740.7
37.5°	3556.7	3528.1	3512.0	3495.9	3506.6
40°	3317.3	3279.8	3256.6	3224.4	3242.3
42.5°	3065.4	3018.9	2990.4	2967.2	2974.3
45°	2801.0	2752.8	2724.2	2699.2	2674.2
47.5°	2522.4	2492.0	2477.7	2445.6	2416.9
50°	2250.9	2240.1	2206.2	2179.4	2120.4
52.5°	2002.5	1993.6	1940.0	1895.4	1820.4
55°	1786.4	1752.4	1664.9	1622.0	1600.6
57.5°	1566.7	1511.3	1405.8	1400.5	1414.8
60°	1355.9	1287.9	1161.2	1189.7	1245.1
62.5°	1164.7	1062.9	941.4	1009.3	1075.4
65°	989.7	878.9	761.0	850.3	930.7
67.5°	845.0	734.2	612.8	732.4	825.3
70°	730.7	618.1	503.8	641.3	728.8
72.5°	636.0	534.1	439.5	569.8	661.0
75°	557.4	466.2	410.9	507.3	585.9
77.5°	478.8	405.5	393.0	451.9	500.2
80°	389.4	355.5	359.0	396.5	414.4
82.5°	291.2	293.0	301.9	332.3	325.1
85°	203.6	219.7	214.4	246.6	230.5
87.5°	112.6	123.2	116.1	141.1	126.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)