

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: P231839

Luminaire Tested: **24GR-LD5-180-A125-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231839
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-LD5-180-A125-UNV-L950-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18101.7 lumens
Efficiency: N/A
Efficacy: 125.5 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

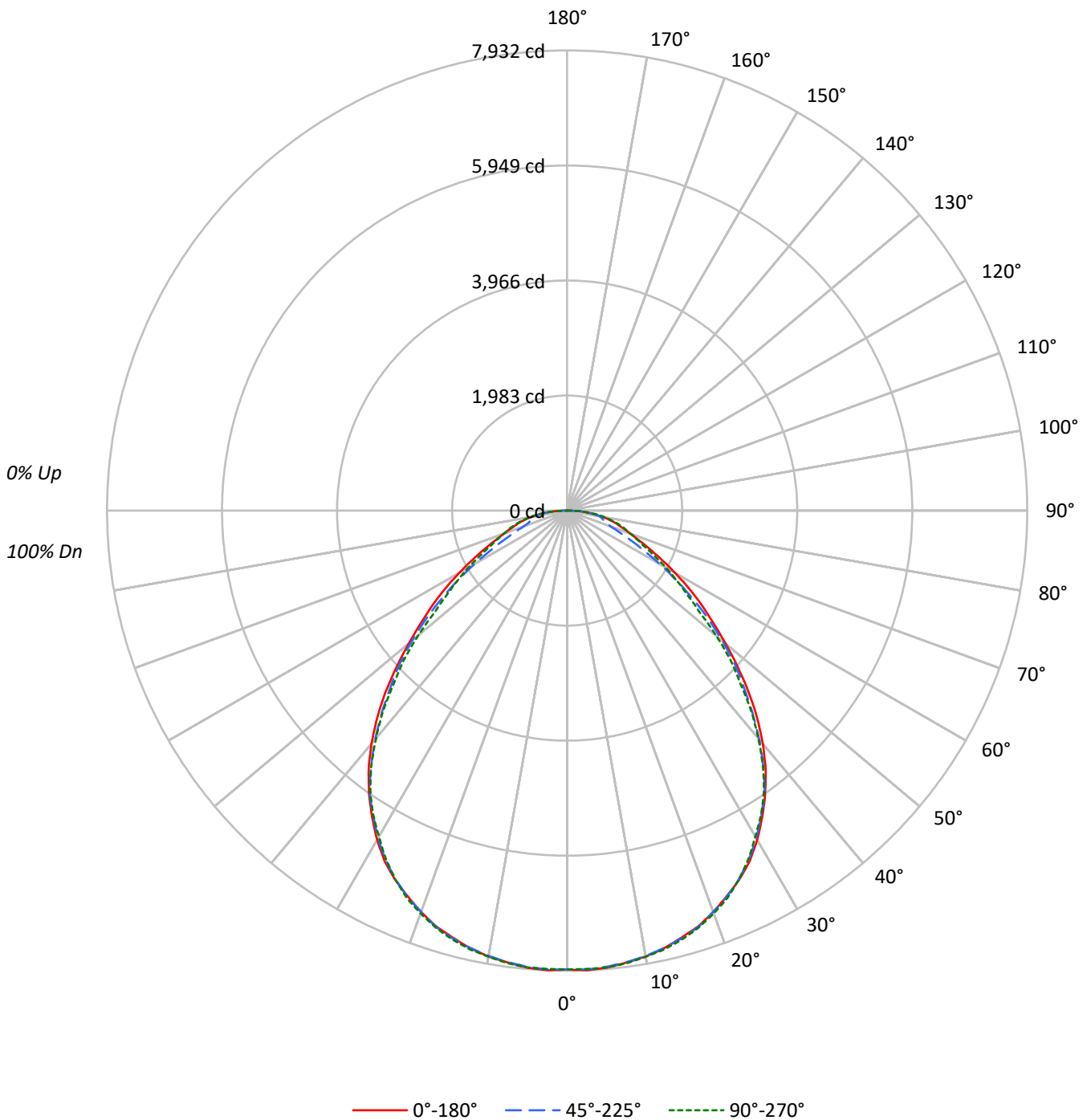
Input Watts (W): 144.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45					43				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12115	12115	12115
5°	12157	12131	12153
10°	12139	12122	12144
15°	12081	12103	12135
20°	11999	11999	12045
25°	11864	11840	11850
30°	11587	11527	11472
35°	11131	11099	11057
40°	10485	10293	10248
45°	9591	9328	9157
50°	8478	8310	7987
55°	7541	7028	6757
60°	6565	5623	6029
65°	5670	4360	5332
70°	5172	3566	5160
75°	5214	3844	5482
80°	5430	5006	5778
85°	5659	5956	6402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.3	4.1
10°-20°	2151.9	11.9
20°-30°	3221.1	17.8
30°-40°	3680.7	20.3
40°-50°	3327.7	18.4
50°-60°	2394.1	13.2
60°-70°	1387.9	7.7
70°-80°	823.3	4.5
80°-90°	364.6	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°	6123.4	33.8
0°-40°	9804.0	54.2
0°-60°	15525.8	85.8
0°-90°	18101.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18101.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7910	7910	7910	7910	7910	
5°	7907	7896	7890	7879	7904	751
15°	7619	7633	7633	7625	7653	2151
25°	7020	7012	7006	6992	7012	3227
35°	5953	5925	5936	5862	5913	3711
45°	4428	4352	4306	4267	4227	3402
55°	2824	2770	2632	2564	2530	2526
65°	1564	1389	1203	1344	1471	1580
75°	881	737	650	802	926	931
85°	322	347	339	390	364	345
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7909.8	7909.8	7909.8	7909.8	7909.8
2.5°	7932.4	7904.2	7918.3	7909.8	7907.0
5°	7907.0	7895.7	7890.1	7878.8	7904.2
7.5°	7856.2	7847.7	7850.5	7853.3	7870.3
10°	7805.3	7791.2	7794.1	7799.7	7808.2
12.5°	7726.3	7717.8	7720.6	7726.3	7746.0
15°	7619.0	7633.1	7633.1	7624.6	7652.8
17.5°	7511.7	7508.9	7523.0	7497.5	7537.1
20°	7362.0	7364.8	7362.0	7364.8	7390.2
22.5°	7192.5	7206.7	7198.2	7198.2	7226.4
25°	7020.3	7011.8	7006.2	6992.1	7011.8
27.5°	6814.2	6797.2	6783.0	6754.8	6768.9
30°	6551.5	6554.4	6517.6	6492.2	6486.6
32.5°	6257.8	6257.8	6223.9	6204.2	6221.1
35°	5952.9	5924.6	5935.9	5862.5	5913.3
37.5°	5622.4	5577.3	5551.8	5526.4	5543.4
40°	5244.1	5184.7	5148.1	5097.2	5125.4
42.5°	4845.8	4772.4	4727.3	4690.5	4701.9
45°	4427.9	4351.7	4306.5	4267.0	4227.4
47.5°	3987.3	3939.4	3916.8	3866.0	3820.8
50°	3558.2	3541.2	3487.6	3445.2	3352.0
52.5°	3165.6	3151.5	3066.8	2996.2	2877.6
55°	2823.9	2770.3	2631.9	2564.1	2530.3
57.5°	2476.6	2389.0	2222.4	2213.9	2236.5
60°	2143.3	2036.0	1835.6	1880.7	1968.2
62.5°	1841.2	1680.2	1488.2	1595.5	1700.0
65°	1564.5	1389.4	1203.0	1344.2	1471.3
67.5°	1335.7	1160.6	968.6	1157.8	1304.7
70°	1155.0	977.1	796.3	1013.8	1152.2
72.5°	1005.3	844.4	694.7	900.8	1044.9
75°	881.1	737.0	649.5	802.0	926.3
77.5°	756.8	641.0	621.3	714.4	790.7
80°	615.6	561.9	567.6	626.9	655.1
82.5°	460.3	463.1	477.2	525.3	514.0
85°	322.0	347.3	338.9	389.7	364.3
87.5°	177.9	194.8	183.5	223.1	200.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)