

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: P231791

Luminaire Tested: **24GR-LD5-150-F1-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231791
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-L950-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15355.3 lumens
Efficiency: N/A
Efficacy: 127.6 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

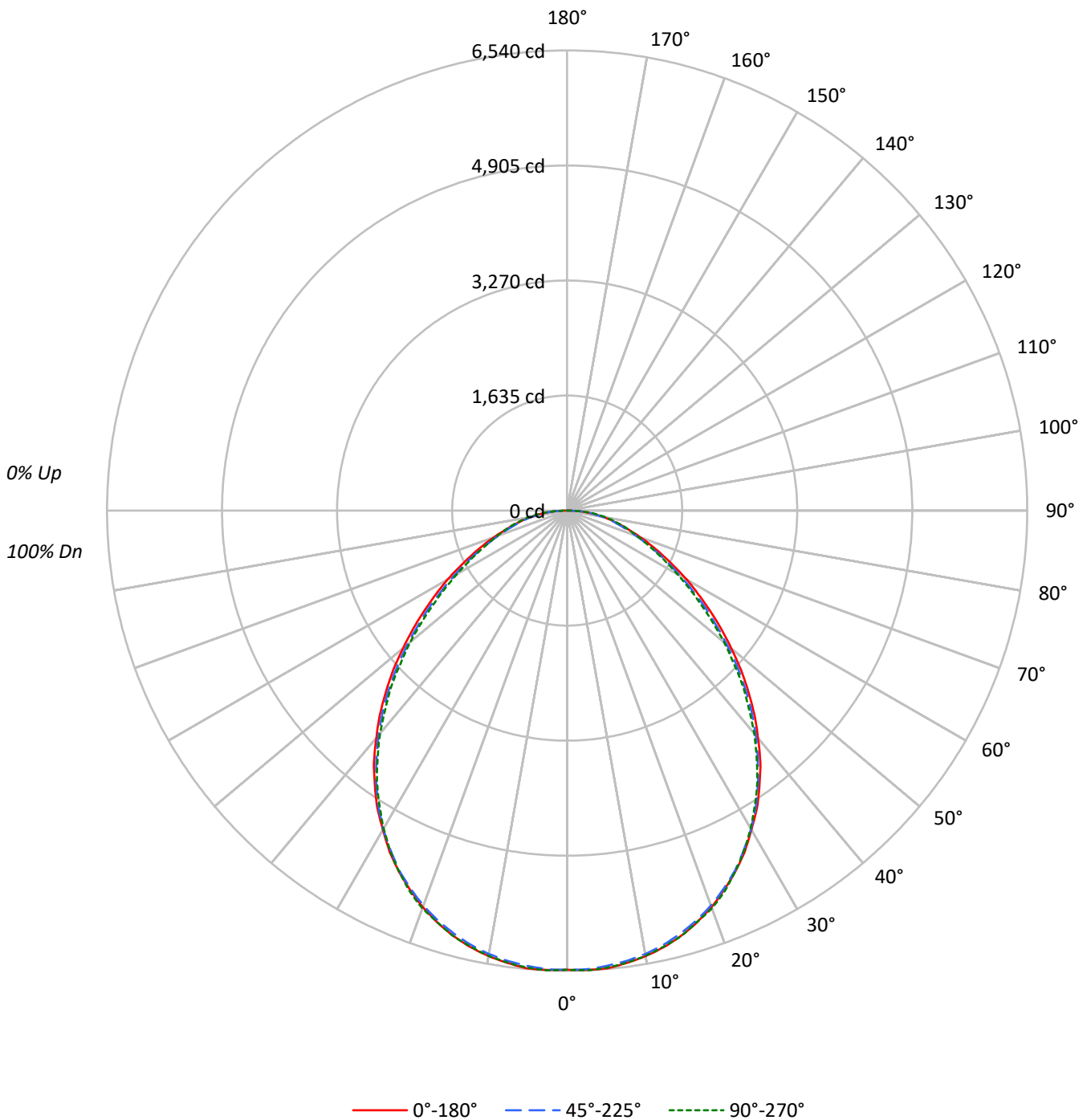
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9995	9995	9995
5°	10041	9986	10026
10°	10000	9952	9997
15°	9922	9868	9929
20°	9776	9737	9808
25°	9565	9540	9560
30°	9262	9245	9224
35°	8913	8845	8809
40°	8436	8340	8273
45°	7892	7746	7653
50°	7252	7057	6937
55°	6614	6371	6185
60°	6007	5683	5537
65°	5410	5106	5019
70°	4955	4633	4761
75°	4630	4418	4744
80°	4594	4509	4954
85°	4682	4724	5399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.6	4.0
10°-20°	1755.9	11.4
20°-30°	2594.0	16.9
30°-40°	2949.2	19.2
40°-50°	2754.1	17.9
50°-60°	2141.8	13.9
60°-70°	1421.1	9.3
70°-80°	822.4	5.4
80°-90°	299.0	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°	4967.6	32.4
0°-40°	7916.8	51.6
0°-60°	12812.7	83.4
0°-90°	15355.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15355.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6526	6526	6526	6526	6526	
5°	6531	6497	6495	6507	6521	620
15°	6257	6226	6224	6221	6262	1763
25°	5660	5636	5645	5633	5657	2602
35°	4767	4743	4731	4697	4712	2976
45°	3644	3615	3576	3531	3533	2807
55°	2477	2441	2386	2323	2316	2221
65°	1493	1447	1409	1382	1385	1492
75°	782	763	746	780	802	837
85°	266	262	269	305	307	290
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6526.0	6526.0	6526.0	6526.0	6526.0
2.5°	6535.6	6516.4	6526.0	6518.8	6540.4
5°	6530.8	6497.2	6494.9	6506.8	6521.2
7.5°	6485.2	6449.2	6456.4	6456.4	6480.4
10°	6430.0	6394.0	6398.8	6401.2	6427.6
12.5°	6355.6	6319.6	6322.0	6319.6	6346.0
15°	6257.2	6226.0	6223.6	6221.2	6262.0
17.5°	6137.2	6094.0	6108.4	6110.8	6132.4
20°	5998.0	5964.4	5974.0	5971.6	6017.2
22.5°	5832.4	5808.3	5815.5	5810.8	5853.9
25°	5659.6	5635.5	5645.2	5633.2	5657.2
27.5°	5465.2	5448.4	5438.7	5431.5	5448.4
30°	5237.1	5227.5	5227.5	5196.4	5215.6
32.5°	5021.1	4989.9	4989.9	4977.9	4966.0
35°	4766.7	4742.7	4730.7	4697.1	4711.5
37.5°	4512.3	4457.1	4452.3	4425.9	4425.9
40°	4219.5	4188.3	4171.4	4142.7	4137.9
42.5°	3941.0	3909.8	3881.1	3833.0	3823.5
45°	3643.5	3614.6	3576.2	3530.6	3533.0
47.5°	3348.3	3307.4	3271.5	3216.2	3209.0
50°	3043.4	3014.6	2961.8	2913.8	2911.4
52.5°	2757.8	2712.2	2664.2	2606.6	2606.6
55°	2476.9	2441.0	2385.7	2323.3	2316.1
57.5°	2208.1	2174.5	2112.1	2066.5	2054.5
60°	1961.0	1912.9	1855.3	1816.9	1807.4
62.5°	1713.7	1670.5	1627.3	1588.9	1586.5
65°	1492.9	1447.3	1408.9	1382.5	1384.9
67.5°	1293.7	1255.3	1212.1	1204.8	1207.3
70°	1106.5	1065.7	1034.5	1051.2	1063.2
72.5°	928.8	907.3	885.6	909.6	926.5
75°	782.4	763.2	746.5	780.1	801.6
77.5°	648.0	633.6	631.3	660.0	679.2
80°	520.8	504.0	511.2	544.8	561.7
82.5°	396.0	384.0	386.4	427.2	439.3
85°	266.4	261.6	268.8	304.8	307.2
87.5°	141.6	141.6	146.4	168.0	160.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)