

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: P475759

Luminaire Tested: **24GR-LD5-150-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475759
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-A-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14922.3 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

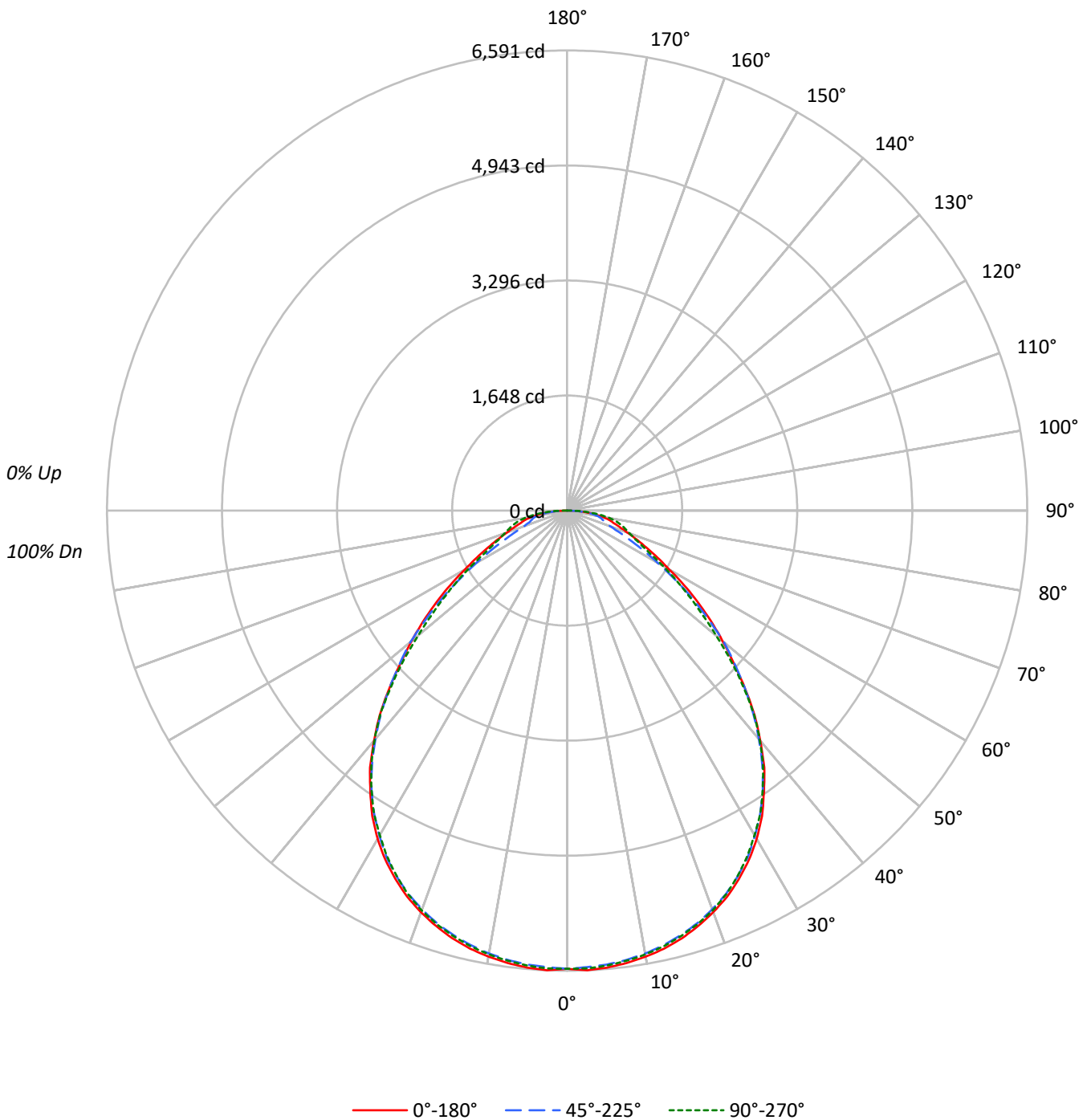
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475759

CATALOG NUMBER: 24GR-LD5-150-A-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475759

CATALOG NUMBER: 24GR-LD5-150-A-UNV-L850-CD1-U

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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	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	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					56				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	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	42	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8831	8831	8831
5°	8875	8815	8835
10°	8861	8801	8819
15°	8835	8766	8786
20°	8766	8703	8726
25°	8644	8581	8575
30°	8435	8357	8337
35°	8073	8022	8022
40°	7554	7510	7541
45°	6858	6847	6791
50°	6083	6130	5828
55°	5346	5111	4991
60°	4551	4037	4246
65°	3976	3139	3747
70°	3595	2584	3740
75°	3597	2757	4178
80°	3962	3392	4782
85°	4083	3810	5216



TEST NUMBER: P475759

CATALOG NUMBER: 24GR-LD5-150-A-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	4.2
10°-20°	1779.2	11.9
20°-30°	2661.6	17.8
30°-40°	3045.8	20.4
40°-50°	2759.6	18.5
50°-60°	1953.7	13.1
60°-70°	1128.6	7.6
70°-80°	684.2	4.6
80°-90°	288.0	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°	5062.4	33.9
0°-40°	8108.2	54.3
0°-60°	12821.5	85.9
0°-90°	14922.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14922.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6563	6563	6563	6563	6563	
5°	6571	6547	6527	6525	6541	624
15°	6343	6318	6293	6293	6308	1789
25°	5823	5799	5780	5776	5776	2678
35°	4915	4893	4884	4877	4884	3066
45°	3604	3597	3598	3572	3569	2777
55°	2279	2202	2179	2114	2128	2042
65°	1249	1120	986	1128	1177	1255
75°	692	620	530	682	804	741
85°	264	238	247	316	338	284
90°	0	0	0	0	0	



TEST NUMBER: P475759

CATALOG NUMBER: 24GR-LD5-150-A-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6563.3	6563.3	6563.3	6563.3	6563.3
2.5°	6591.2	6566.3	6544.2	6547.2	6563.3
5°	6570.7	6547.2	6526.6	6525.1	6541.3
7.5°	6535.4	6514.8	6491.3	6491.3	6504.6
10°	6485.5	6464.9	6441.4	6439.9	6454.6
12.5°	6426.7	6400.2	6375.3	6375.3	6391.4
15°	6342.9	6318.0	6293.0	6293.0	6307.7
17.5°	6240.1	6218.0	6197.5	6198.9	6210.7
20°	6122.5	6100.5	6078.5	6081.4	6094.6
22.5°	5987.4	5960.9	5943.3	5941.8	5950.6
25°	5822.8	5799.3	5780.2	5775.8	5775.8
27.5°	5639.1	5614.2	5600.9	5580.4	5586.2
30°	5429.0	5402.6	5379.1	5367.3	5365.9
32.5°	5192.5	5166.0	5145.5	5144.0	5149.9
35°	4914.8	4892.7	4883.9	4876.6	4883.9
37.5°	4640.0	4598.9	4591.5	4590.1	4609.2
40°	4300.6	4285.9	4275.6	4268.3	4293.3
42.5°	3974.4	3945.0	3948.0	3920.1	3964.2
45°	3604.2	3596.8	3598.3	3571.8	3568.9
47.5°	3236.9	3235.4	3257.4	3184.0	3179.5
50°	2906.3	2891.6	2928.3	2815.2	2784.3
52.5°	2590.4	2549.2	2537.5	2434.6	2434.6
55°	2278.9	2202.5	2179.0	2114.3	2127.5
57.5°	1983.5	1874.8	1826.3	1824.9	1846.9
60°	1691.2	1567.7	1500.1	1553.0	1578.0
62.5°	1459.0	1323.8	1221.0	1320.9	1344.4
65°	1248.9	1119.6	985.9	1128.4	1176.9
67.5°	1068.2	960.9	793.4	980.0	1044.7
70°	913.9	818.4	656.8	863.9	950.6
72.5°	791.9	712.6	571.6	771.4	875.7
75°	692.0	620.0	530.4	681.8	803.7
77.5°	612.7	527.5	496.6	596.5	721.4
80°	511.3	433.4	437.8	512.8	617.1
82.5°	393.8	335.0	352.6	424.6	484.9
85°	264.5	238.0	246.8	315.9	337.9
87.5°	130.8	126.4	135.2	185.1	185.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)