

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: P475820

Luminaire Tested: **24GR-LD5-180-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475820
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-180-A125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18501.7 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

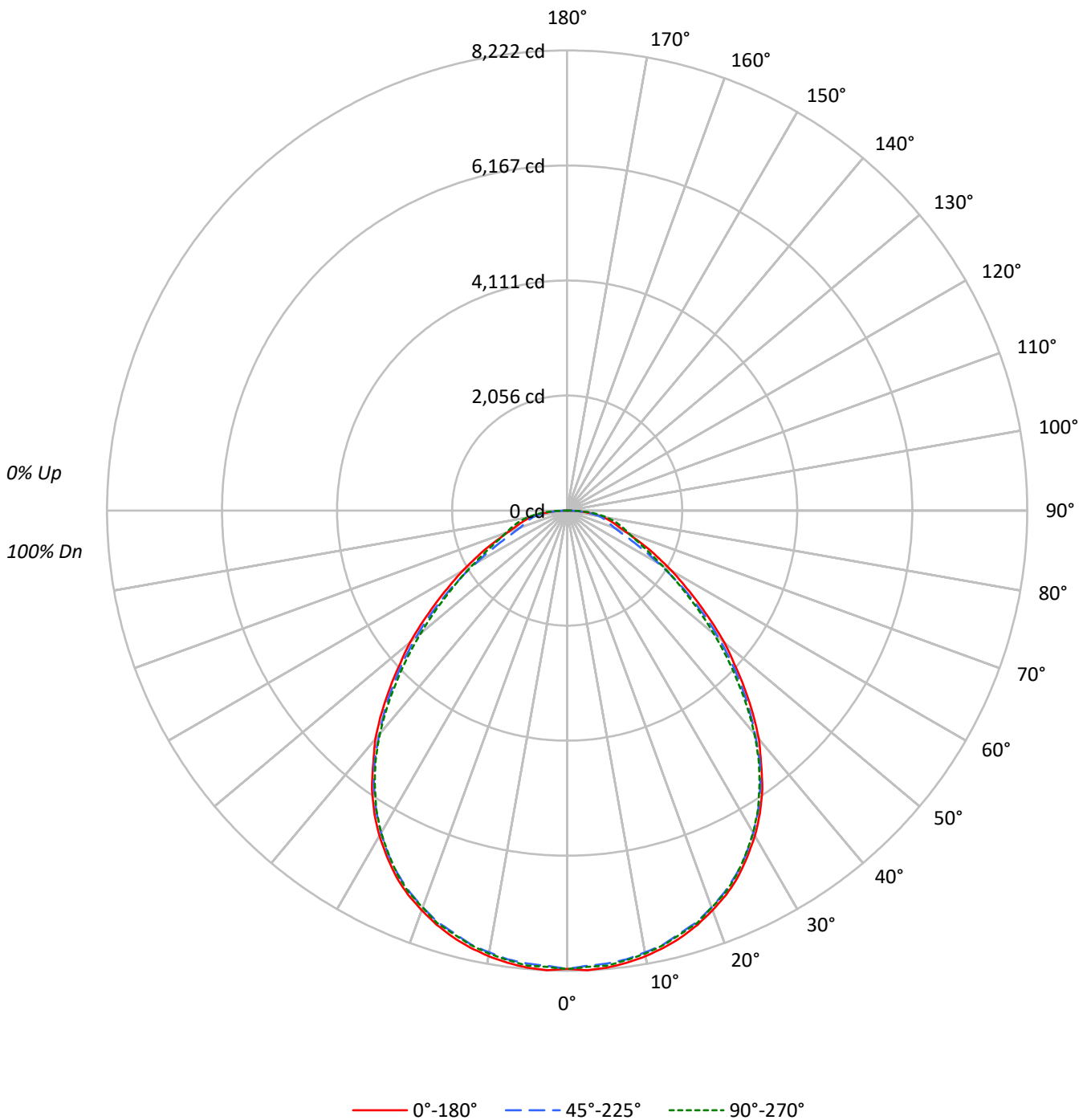
Input Watts (W): 126.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475820

CATALOG NUMBER: 24GR-LD5-180-A125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475820

CATALOG NUMBER: 24GR-LD5-180-A125-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	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	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	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°	11018	11018	11018
5°	11070	10974	11021
10°	11046	10950	10981
15°	10991	10884	10910
20°	10879	10803	10808
25°	10722	10635	10652
30°	10425	10331	10325
35°	9987	9888	9840
40°	9358	9175	9137
45°	8519	8348	8188
50°	7670	7398	7157
55°	6655	6294	6105
60°	5812	5073	5250
65°	5029	4032	4668
70°	4436	3535	4558
75°	4453	3844	4986
80°	4878	4567	5645
85°	5142	4973	6470



TEST NUMBER: P475820

CATALOG NUMBER: 24GR-LD5-180-A125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.9	4.2
10°-20°	2211.4	12.0
20°-30°	3297.1	17.8
30°-40°	3748.1	20.3
40°-50°	3377.9	18.3
50°-60°	2433.1	13.2
60°-70°	1415.2	7.6
70°-80°	865.9	4.7
80°-90°	379.0	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°	6282.4	34.0
0°-40°	10030.5	54.2
0°-60°	15841.5	85.6
0°-90°	18501.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18501.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8189	8189	8189	8189	8189	
5°	8196	8140	8125	8141	8160	779
15°	7891	7847	7814	7826	7832	2224
25°	7222	7179	7164	7153	7175	3318
35°	6080	6038	6020	5985	5991	3783
45°	4477	4426	4387	4320	4303	3453
55°	2837	2769	2683	2656	2603	2558
65°	1580	1420	1267	1365	1466	1580
75°	857	776	740	842	959	912
85°	333	330	322	438	419	353
90°	0	0	0	0	0	



TEST NUMBER: P475820

CATALOG NUMBER: 24GR-LD5-180-A125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8188.9	8188.9	8188.9	8188.9	8188.9
2.5°	8221.9	8177.9	8141.3	8143.2	8161.5
5°	8196.2	8139.5	8124.9	8141.3	8159.6
7.5°	8150.5	8097.4	8088.3	8079.1	8101.1
10°	8084.6	8048.0	8015.0	8024.2	8037.0
12.5°	7996.7	7965.6	7941.8	7923.5	7951.0
15°	7890.6	7846.6	7813.7	7826.5	7832.0
17.5°	7757.0	7714.9	7705.7	7698.4	7725.8
20°	7597.7	7572.1	7544.6	7552.0	7548.3
22.5°	7429.3	7390.9	7368.9	7357.9	7387.2
25°	7222.5	7178.6	7163.9	7153.0	7174.9
27.5°	6969.9	6946.1	6926.0	6911.3	6913.2
30°	6710.0	6686.2	6649.6	6638.6	6645.9
32.5°	6411.7	6384.2	6351.3	6318.3	6342.1
35°	6080.4	6038.3	6020.0	5985.2	5990.7
37.5°	5688.7	5670.4	5653.9	5608.1	5622.8
40°	5328.1	5278.7	5223.8	5196.3	5201.8
42.5°	4910.8	4859.5	4815.6	4777.2	4758.9
45°	4477.0	4425.8	4387.3	4319.6	4303.1
47.5°	4045.0	3997.5	3955.4	3902.3	3854.7
50°	3664.3	3576.5	3534.4	3479.5	3419.1
52.5°	3236.0	3184.8	3102.4	3056.7	3001.7
55°	2837.0	2769.3	2683.3	2655.8	2602.7
57.5°	2478.3	2405.1	2278.8	2267.8	2266.0
60°	2159.8	2061.0	1885.2	1898.1	1951.1
62.5°	1850.5	1709.5	1550.3	1607.0	1685.7
65°	1579.6	1420.3	1266.6	1365.4	1466.1
67.5°	1319.7	1176.9	1047.0	1178.7	1284.9
70°	1127.5	1008.5	898.7	1039.6	1158.6
72.5°	966.4	874.9	803.5	931.6	1059.8
75°	856.6	776.1	739.5	842.0	959.1
77.5°	754.1	682.7	671.7	763.2	849.3
80°	629.6	580.2	589.4	682.7	728.5
82.5°	479.5	464.9	466.7	583.9	593.0
85°	333.1	329.5	322.1	437.5	419.1
87.5°	168.4	172.1	170.2	248.9	223.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)