

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: P475640

Luminaire Tested: **24GR-LD5-180-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475640
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-180-F125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18426.8 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

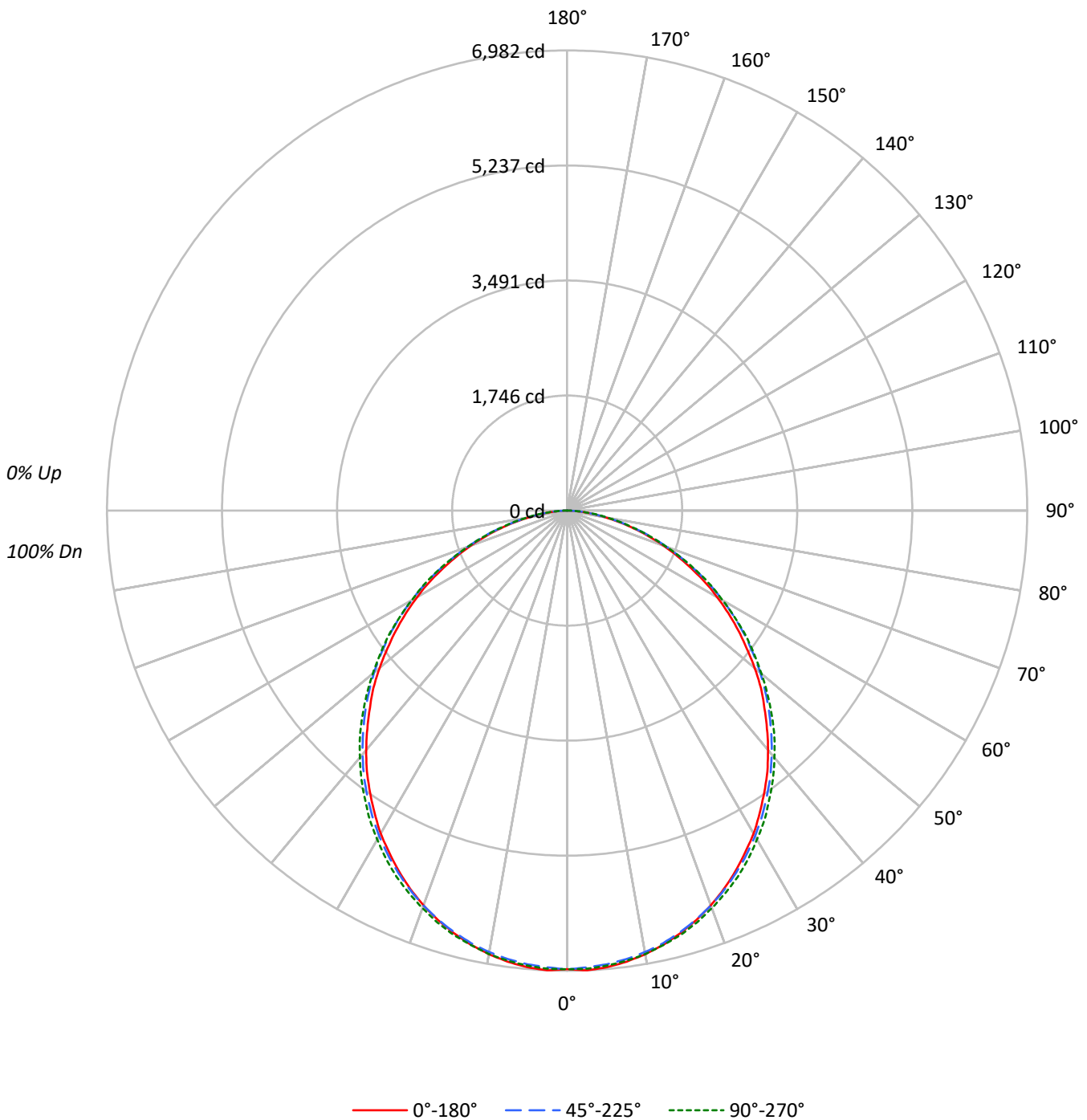
Input Watts (W): 126.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475640

CATALOG NUMBER: 24GR-LD5-180-F125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475640

CATALOG NUMBER: 24GR-LD5-180-F125-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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9363	9363	9363
5°	9392	9333	9359
10°	9338	9294	9332
15°	9245	9225	9282
20°	9127	9130	9191
25°	8968	9004	9098
30°	8793	8859	8952
35°	8567	8683	8785
40°	8331	8482	8594
45°	8056	8253	8358
50°	7775	8003	8057
55°	7439	7706	7763
60°	7083	7325	7334
65°	6618	6874	6911
70°	6131	6304	6283
75°	5447	5642	5658
80°	4557	4719	4897
85°	3418	3677	3805



TEST NUMBER: P475640

CATALOG NUMBER: 24GR-LD5-180-F125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.5	3.6
10°-20°	1870.7	10.2
20°-30°	2796.4	15.2
30°-40°	3303.8	17.9
40°-50°	3335.1	18.1
50°-60°	2910.6	15.8
60°-70°	2121.9	11.5
70°-80°	1144.3	6.2
80°-90°	286.5	1.6
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°	5324.6	28.9
0°-40°	8628.3	46.8
0°-60°	14874.1	80.7
0°-90°	18426.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18426.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6959	6959	6959	6959	6959	
5°	6954	6929	6910	6916	6930	660
15°	6637	6624	6623	6638	6663	1871
25°	6041	6042	6065	6103	6128	2781
35°	5216	5230	5287	5338	5348	3263
45°	4234	4264	4337	4391	4392	3269
55°	3171	3210	3285	3298	3309	2834
65°	2079	2124	2159	2163	2171	2066
75°	1048	1058	1085	1090	1088	1113
85°	221	227	238	250	246	269
90°	0	0	0	0	0	



TEST NUMBER: P475640

CATALOG NUMBER: 24GR-LD5-180-F125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6958.9	6958.9	6958.9	6958.9	6958.9
2.5°	6981.9	6956.9	6937.0	6941.2	6957.9
5°	6953.7	6928.7	6909.9	6916.1	6929.7
7.5°	6903.6	6880.6	6866.0	6872.2	6890.0
10°	6834.6	6815.8	6802.3	6811.7	6830.5
12.5°	6746.9	6728.1	6722.9	6736.5	6753.2
15°	6637.2	6623.6	6622.6	6638.3	6663.3
17.5°	6514.0	6500.4	6507.7	6528.6	6550.5
20°	6374.0	6361.5	6376.1	6404.3	6418.9
22.5°	6214.2	6203.7	6229.8	6259.1	6277.9
25°	6040.8	6041.8	6064.8	6103.4	6128.5
27.5°	5848.6	5855.9	5890.3	5928.0	5953.0
30°	5659.5	5653.2	5702.3	5743.1	5761.9
32.5°	5440.1	5443.3	5500.7	5542.5	5570.7
35°	5215.6	5230.2	5286.6	5337.8	5348.2
37.5°	4988.9	4999.3	5067.2	5117.4	5130.9
40°	4743.4	4762.2	4829.1	4876.1	4892.8
42.5°	4487.5	4511.5	4583.6	4632.7	4654.6
45°	4233.7	4263.9	4337.1	4391.4	4392.4
47.5°	3988.2	4010.1	4081.1	4129.2	4124.0
50°	3714.5	3746.9	3823.1	3852.4	3849.3
52.5°	3434.6	3483.7	3553.6	3576.6	3573.5
55°	3171.3	3210.0	3285.2	3297.7	3309.2
57.5°	2898.7	2932.1	3013.6	3018.8	3016.7
60°	2632.3	2662.6	2722.2	2736.8	2725.3
62.5°	2363.9	2394.2	2447.4	2462.1	2460.0
65°	2078.7	2123.6	2159.1	2163.3	2170.6
67.5°	1813.4	1841.6	1876.1	1882.3	1877.1
70°	1558.5	1582.5	1602.4	1606.6	1597.2
72.5°	1295.3	1317.2	1345.4	1350.6	1340.2
75°	1047.7	1058.2	1085.3	1089.5	1088.4
77.5°	807.5	815.8	835.7	851.3	853.4
80°	588.1	591.2	609.0	620.5	632.0
82.5°	389.6	398.0	411.6	423.1	433.5
85°	221.4	226.7	238.2	249.7	246.5
87.5°	85.7	97.1	98.2	109.7	113.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)