

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: P476233

Luminaire Tested: **14GR-LD5-24-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476233
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F125-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

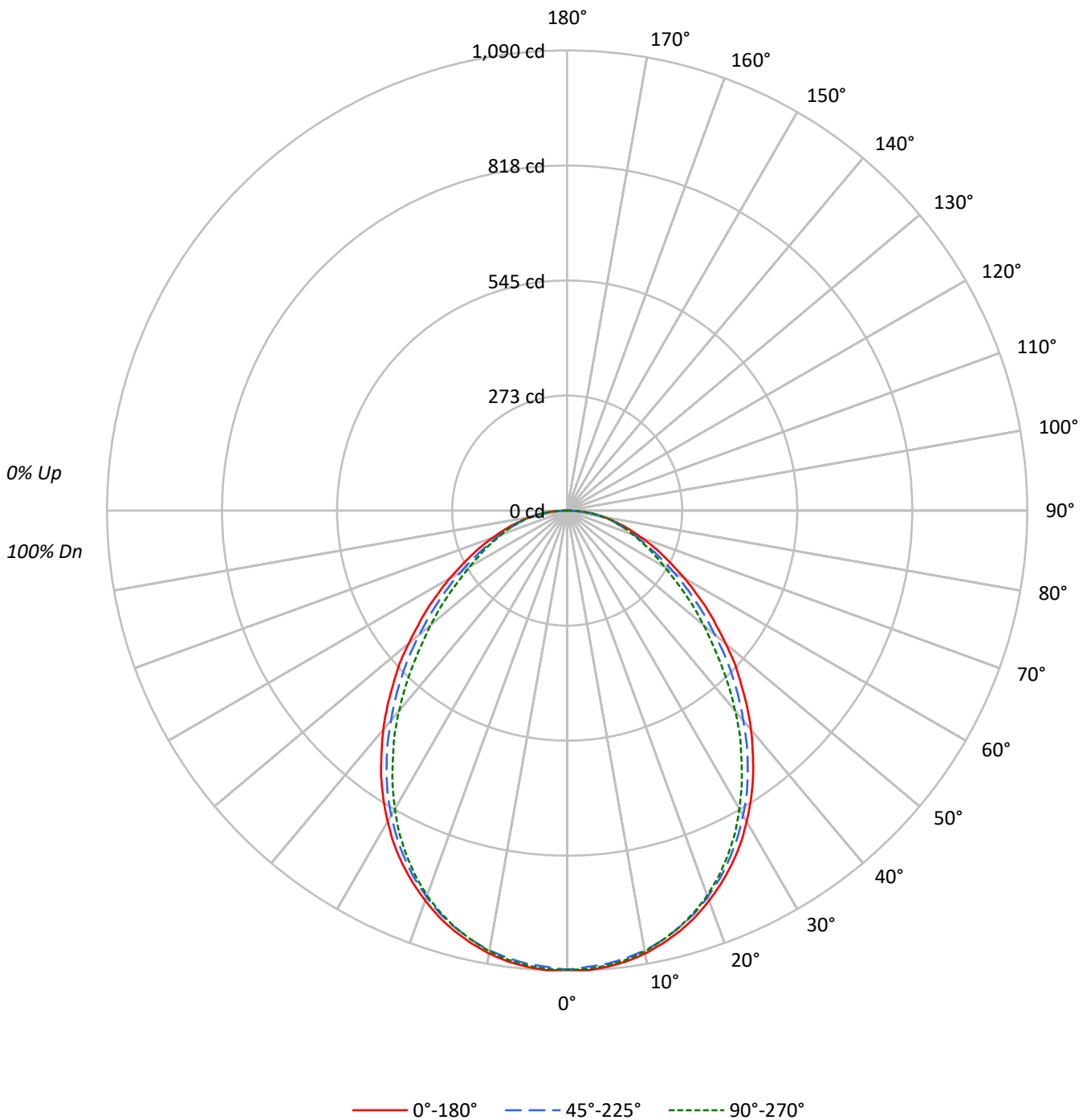
Lumens per Lamp: N/A
Luminaire Lumens: 2442.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.5
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: P476233

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476233

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L850-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2927	2927	2927
5°	2931	2911	2922
10°	2911	2891	2897
15°	2873	2850	2850
20°	2816	2788	2779
25°	2742	2702	2674
30°	2642	2590	2536
35°	2524	2450	2366
40°	2380	2281	2174
45°	2219	2105	1962
50°	2051	1909	1766
55°	1892	1730	1588
60°	1726	1563	1434
65°	1587	1419	1355
70°	1472	1327	1301
75°	1406	1289	1313
80°	1376	1299	1368
85°	1414	1275	1362



TEST NUMBER: P476233

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	4.2
10°-20°	288.9	11.8
20°-30°	419.0	17.2
30°-40°	465.3	19.1
40°-50°	425.7	17.4
50°-60°	331.6	13.6
60°-70°	226.6	9.3
70°-80°	135.3	5.5
80°-90°	47.1	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°	810.5	33.2
0°-40°	1275.8	52.2
0°-60°	2033.1	83.3
0°-90°	2442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1085	1083	1078	1083	1082	103
15°	1031	1028	1023	1027	1023	290
25°	924	920	910	907	901	425
35°	768	761	746	730	720	479
45°	583	575	553	527	516	450
55°	403	391	369	347	338	360
65°	249	240	223	213	213	248
75°	135	130	124	126	126	143
85°	46	44	41	45	44	49
90°	0	0	0	0	0	



TEST NUMBER: P476233

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.7	1087.7	1087.7	1087.7	1087.7
2.5°	1089.9	1087.1	1082.1	1087.7	1087.1
5°	1084.9	1082.7	1077.6	1083.2	1081.6
7.5°	1077.1	1074.9	1069.3	1075.4	1073.2
10°	1065.4	1062.6	1058.1	1062.6	1060.3
12.5°	1049.7	1046.9	1042.4	1046.4	1042.4
15°	1031.3	1028.5	1022.9	1026.8	1022.9
17.5°	1009.5	1005.6	1001.1	1001.7	998.3
20°	983.2	979.3	973.7	973.7	970.4
22.5°	954.7	950.8	944.1	941.9	937.4
25°	923.5	919.5	910.0	907.3	900.6
27.5°	889.4	883.2	873.7	867.6	860.9
30°	850.3	845.2	833.5	824.6	816.2
32.5°	810.6	805.6	792.2	778.8	769.8
35°	768.2	761.4	745.8	730.2	720.1
37.5°	722.3	716.8	698.9	679.9	672.1
40°	677.6	670.4	649.2	629.6	619.0
42.5°	630.7	622.9	601.7	579.3	567.6
45°	583.2	575.4	553.1	527.4	515.6
47.5°	539.1	529.0	505.6	479.9	465.9
50°	489.9	481.6	455.9	431.3	421.8
52.5°	444.1	436.3	412.3	388.3	379.3
55°	403.3	391.1	368.7	346.9	338.5
57.5°	359.8	349.7	328.5	307.8	299.4
60°	320.7	312.8	290.5	272.6	266.5
62.5°	282.1	276.0	255.3	241.9	238.0
65°	249.2	239.7	222.9	212.8	212.8
67.5°	217.9	208.4	193.9	189.9	186.6
70°	187.1	179.9	168.7	165.4	165.4
72.5°	159.8	153.6	145.8	144.7	146.9
75°	135.2	129.6	124.0	126.3	126.3
77.5°	110.6	106.7	104.5	105.6	107.8
80°	88.8	86.0	83.8	86.6	88.3
82.5°	68.2	65.4	63.7	67.6	67.0
85°	45.8	43.6	41.3	45.3	44.1
87.5°	22.9	21.8	17.9	20.1	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)