

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: P476224

Luminaire Tested: **14GR-LD5-24-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476224
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-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

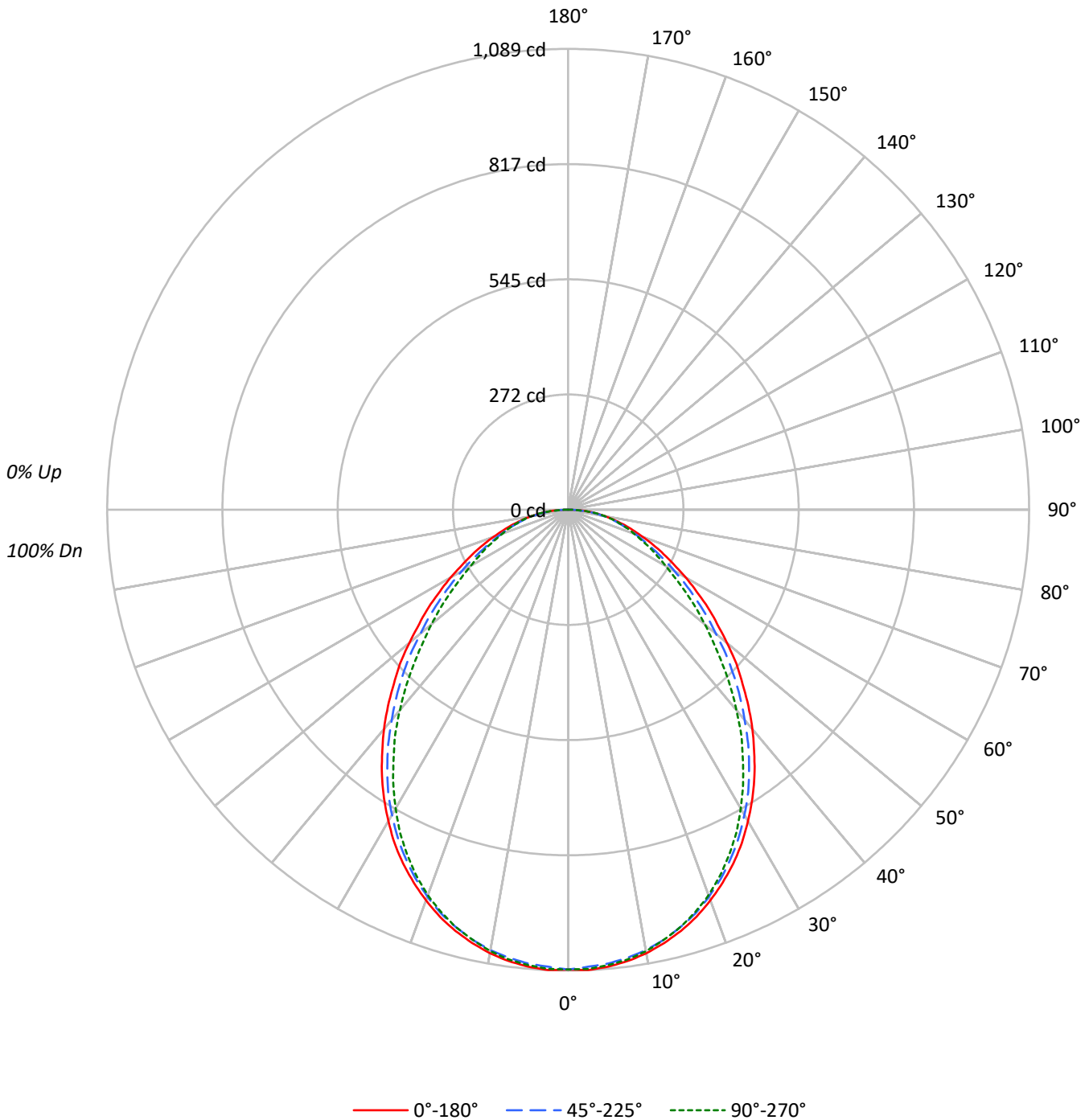
Lumens per Lamp: N/A
Luminaire Lumens: 2439.6 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P476224

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L840-CD1-U

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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2924	2924	2924
5°	2928	2908	2919
10°	2908	2889	2895
15°	2870	2847	2847
20°	2813	2786	2776
25°	2739	2700	2671
30°	2639	2587	2534
35°	2521	2448	2363
40°	2378	2278	2172
45°	2218	2103	1960
50°	2049	1906	1764
55°	1891	1728	1587
60°	1724	1562	1433
65°	1585	1418	1354
70°	1471	1326	1300
75°	1405	1288	1311
80°	1375	1297	1367
85°	1414	1275	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	4.2
10°-20°	288.6	11.8
20°-30°	418.6	17.2
30°-40°	464.8	19.1
40°-50°	425.3	17.4
50°-60°	331.3	13.6
60°-70°	226.3	9.3
70°-80°	135.2	5.5
80°-90°	47.0	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°	809.7	33.2
0°-40°	1274.5	52.2
0°-60°	2031.1	83.3
0°-90°	2439.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1084	1082	1077	1082	1080	103
15°	1030	1028	1022	1026	1022	290
25°	923	919	909	906	900	424
35°	767	761	745	729	719	479
45°	583	575	552	527	515	450
55°	403	391	368	347	338	360
65°	249	239	223	213	213	248
75°	135	130	124	126	126	143
85°	46	44	41	45	44	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1088.9	1086.1	1081.1	1086.6	1086.1
5°	1083.8	1081.6	1076.6	1082.2	1080.5
7.5°	1076.0	1073.8	1068.2	1074.4	1072.1
10°	1064.3	1061.5	1057.1	1061.5	1059.3
12.5°	1048.7	1045.9	1041.4	1045.3	1041.4
15°	1030.3	1027.5	1021.9	1025.8	1021.9
17.5°	1008.5	1004.6	1000.1	1000.7	997.3
20°	982.3	978.4	972.8	972.8	969.4
22.5°	953.8	949.9	943.2	941.0	936.5
25°	922.6	918.6	909.2	906.4	899.7
27.5°	888.5	882.4	872.9	866.7	860.0
30°	849.4	844.4	832.7	823.8	815.4
32.5°	809.8	804.8	791.4	778.0	769.1
35°	767.4	760.7	745.1	729.4	719.4
37.5°	721.6	716.1	698.2	679.2	671.4
40°	677.0	669.7	648.5	629.0	618.4
42.5°	630.1	622.3	601.1	578.8	567.0
45°	582.7	574.9	552.5	526.9	515.1
47.5°	538.6	528.5	505.1	479.4	465.5
50°	489.5	481.1	455.4	430.9	421.4
52.5°	443.7	435.9	411.9	387.9	379.0
55°	403.0	390.7	368.4	346.6	338.2
57.5°	359.4	349.4	328.2	307.5	299.1
60°	320.4	312.5	290.2	272.4	266.2
62.5°	281.8	275.7	255.1	241.7	237.8
65°	248.9	239.4	222.7	212.6	212.6
67.5°	217.7	208.2	193.7	189.8	186.4
70°	187.0	179.7	168.5	165.2	165.2
72.5°	159.6	153.5	145.7	144.5	146.8
75°	135.1	129.5	123.9	126.1	126.1
77.5°	110.5	106.6	104.4	105.5	107.7
80°	88.7	85.9	83.7	86.5	88.2
82.5°	68.1	65.3	63.6	67.5	67.0
85°	45.8	43.5	41.3	45.2	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)