

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: P476223

Luminaire Tested: **14GR-LD5-20-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476223
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-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

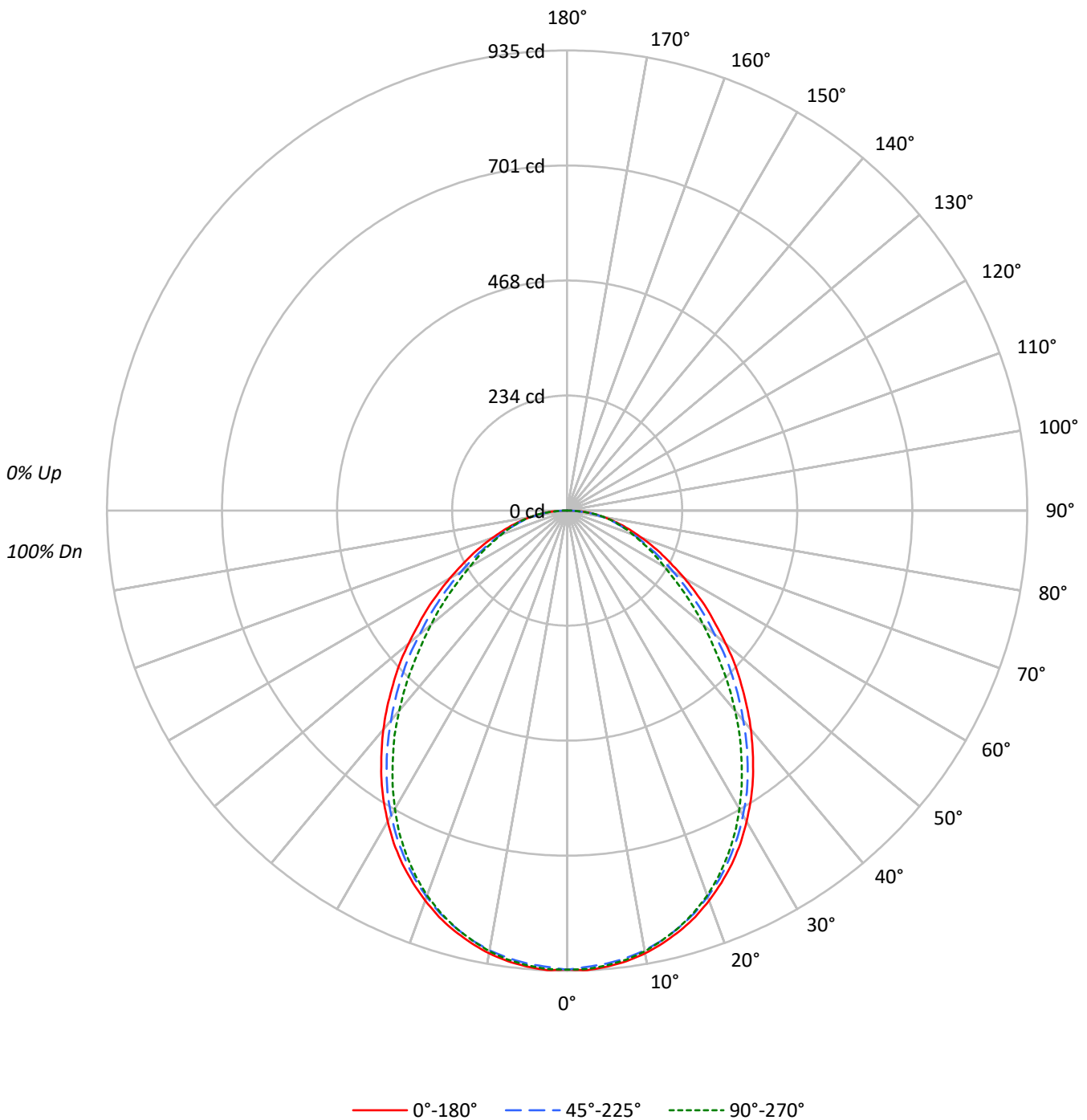
Lumens per Lamp: N/A
Luminaire Lumens: 2094.1 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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

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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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2510	2510	2510
5°	2513	2496	2505
10°	2496	2479	2485
15°	2464	2444	2444
20°	2415	2391	2383
25°	2351	2317	2293
30°	2266	2221	2175
35°	2164	2101	2029
40°	2041	1956	1865
45°	1904	1805	1683
50°	1759	1636	1514
55°	1623	1483	1362
60°	1480	1341	1230
65°	1361	1217	1162
70°	1263	1138	1116
75°	1205	1106	1126
80°	1181	1114	1173
85°	1213	1096	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	4.2
10°-20°	247.7	11.8
20°-30°	359.4	17.2
30°-40°	399.0	19.1
40°-50°	365.0	17.4
50°-60°	284.4	13.6
60°-70°	194.3	9.3
70°-80°	116.0	5.5
80°-90°	40.4	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°	695.1	33.2
0°-40°	1094.1	52.2
0°-60°	1743.5	83.3
0°-90°	2094.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	930	928	924	929	928	88
15°	884	882	877	880	877	249
25°	792	789	780	778	772	364
35°	659	653	640	626	618	411
45°	500	493	474	452	442	386
55°	346	335	316	298	290	309
65°	214	206	191	182	182	213
75°	116	111	106	108	108	123
85°	39	37	36	39	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.8	932.8	932.8	932.8	932.8
2.5°	934.7	932.3	928.0	932.8	932.3
5°	930.4	928.5	924.1	928.9	927.5
7.5°	923.7	921.7	917.0	922.2	920.3
10°	913.6	911.2	907.4	911.2	909.3
12.5°	900.2	897.8	894.0	897.3	894.0
15°	884.4	882.0	877.2	880.5	877.2
17.5°	865.7	862.3	858.5	859.0	856.1
20°	843.2	839.8	835.0	835.0	832.2
22.5°	818.7	815.4	809.6	807.7	803.9
25°	791.9	788.6	780.4	778.0	772.3
27.5°	762.7	757.4	749.3	744.0	738.3
30°	729.2	724.8	714.8	707.1	699.9
32.5°	695.1	690.8	679.3	667.8	660.2
35°	658.7	653.0	639.6	626.2	617.5
37.5°	619.4	614.7	599.3	583.0	576.3
40°	581.1	574.9	556.7	539.9	530.8
42.5°	540.9	534.2	516.0	496.8	486.7
45°	500.2	493.4	474.3	452.2	442.2
47.5°	462.3	453.7	433.6	411.5	399.6
50°	420.2	413.0	390.9	369.8	361.7
52.5°	380.9	374.2	353.6	333.0	325.3
55°	345.9	335.4	316.2	297.5	290.3
57.5°	308.5	299.9	281.7	264.0	256.8
60°	275.0	268.3	249.1	233.8	228.5
62.5°	241.9	236.7	218.9	207.4	204.1
65°	213.7	205.5	191.2	182.5	182.5
67.5°	186.8	178.7	166.2	162.9	160.0
70°	160.5	154.3	144.7	141.8	141.8
72.5°	137.0	131.7	125.0	124.1	126.0
75°	115.9	111.1	106.4	108.3	108.3
77.5°	94.9	91.5	89.6	90.5	92.5
80°	76.2	73.8	71.9	74.3	75.7
82.5°	58.4	56.1	54.6	58.0	57.5
85°	39.3	37.4	35.5	38.8	37.8
87.5°	19.6	18.7	15.3	17.2	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)