

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: P475953

Luminaire Tested: **22GR-LD5-20-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475953
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F125-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2083.8 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

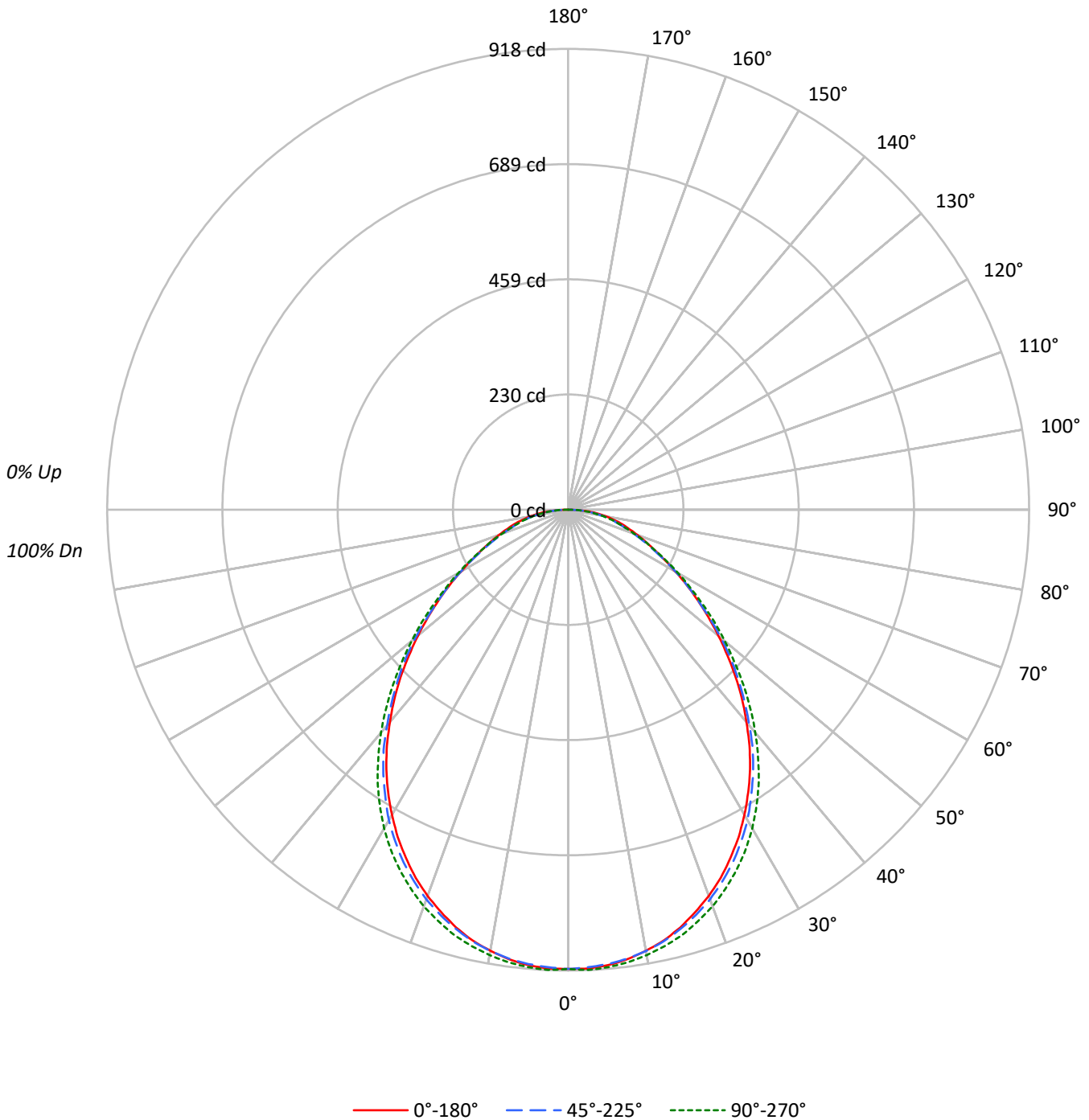
Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	97	107	103	99	96	99	96	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	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	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°	2462	2462	2462
5°	2461	2454	2471
10°	2438	2439	2461
15°	2401	2408	2444
20°	2344	2365	2408
25°	2271	2303	2353
30°	2181	2219	2278
35°	2074	2108	2173
40°	1940	1972	2036
45°	1796	1824	1877
50°	1636	1662	1705
55°	1477	1481	1524
60°	1324	1329	1361
65°	1207	1182	1210
70°	1149	1084	1103
75°	1156	1045	1051
80°	1199	1057	1049
85°	1315	1118	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	4.1
10°-20°	244.1	11.7
20°-30°	357.3	17.1
30°-40°	401.8	19.3
40°-50°	370.5	17.8
50°-60°	285.6	13.7
60°-70°	188.4	9.0
70°-80°	109.7	5.3
80°-90°	40.0	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°	687.9	33.0
0°-40°	1089.7	52.3
0°-60°	1745.8	83.8
0°-90°	2083.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	911	909	908	913	915	86
15°	862	862	864	872	877	242
25°	765	769	776	786	792	352
35°	631	634	642	655	662	394
45°	472	472	479	489	493	363
55°	315	314	316	321	325	282
65°	190	189	186	187	190	190
75°	111	106	100	99	101	117
85°	43	42	36	33	34	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.8	914.8	914.8	914.8	914.8
2.5°	914.8	912.9	912.3	915.8	917.7
5°	910.9	909.0	908.5	912.9	914.8
7.5°	903.3	901.7	902.2	907.1	909.5
10°	892.1	891.6	892.6	897.9	900.8
12.5°	879.1	878.6	880.5	886.2	890.2
15°	861.7	861.7	864.5	872.3	877.2
17.5°	840.8	842.2	846.6	854.4	859.6
20°	818.6	820.1	825.9	834.6	840.8
22.5°	793.9	795.9	801.7	812.3	817.7
25°	765.0	768.8	775.6	786.2	792.5
27.5°	734.9	739.3	745.5	758.7	764.5
30°	702.0	705.0	714.2	726.2	733.0
32.5°	667.2	670.2	677.9	692.4	698.2
35°	631.4	634.4	641.7	654.7	661.5
37.5°	592.8	595.2	603.9	614.0	621.3
40°	552.2	555.6	561.3	573.5	579.7
42.5°	512.6	514.0	520.3	532.4	537.1
45°	471.9	472.4	479.2	488.8	493.1
47.5°	429.8	430.8	439.0	444.8	449.1
50°	390.7	391.2	396.9	402.3	407.2
52.5°	351.5	351.5	354.5	360.2	366.5
55°	314.8	314.3	315.7	321.1	324.9
57.5°	280.0	279.5	281.4	284.8	287.7
60°	246.1	245.1	247.0	249.1	252.9
62.5°	216.2	217.1	214.7	217.6	220.5
65°	189.6	188.6	185.6	187.2	190.0
67.5°	166.8	165.4	160.5	161.4	164.9
70°	146.0	143.1	137.8	137.8	140.2
72.5°	127.2	124.2	117.4	117.9	119.0
75°	111.2	106.4	100.5	98.6	101.1
77.5°	93.8	89.9	84.6	83.1	84.2
80°	77.4	74.5	68.2	66.3	67.7
82.5°	61.4	59.0	51.7	50.3	50.8
85°	42.6	42.1	36.2	33.4	34.3
87.5°	22.8	23.2	18.8	16.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)