

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: P257185

Luminaire Tested: **22GR-LD5-28-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2534.4 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

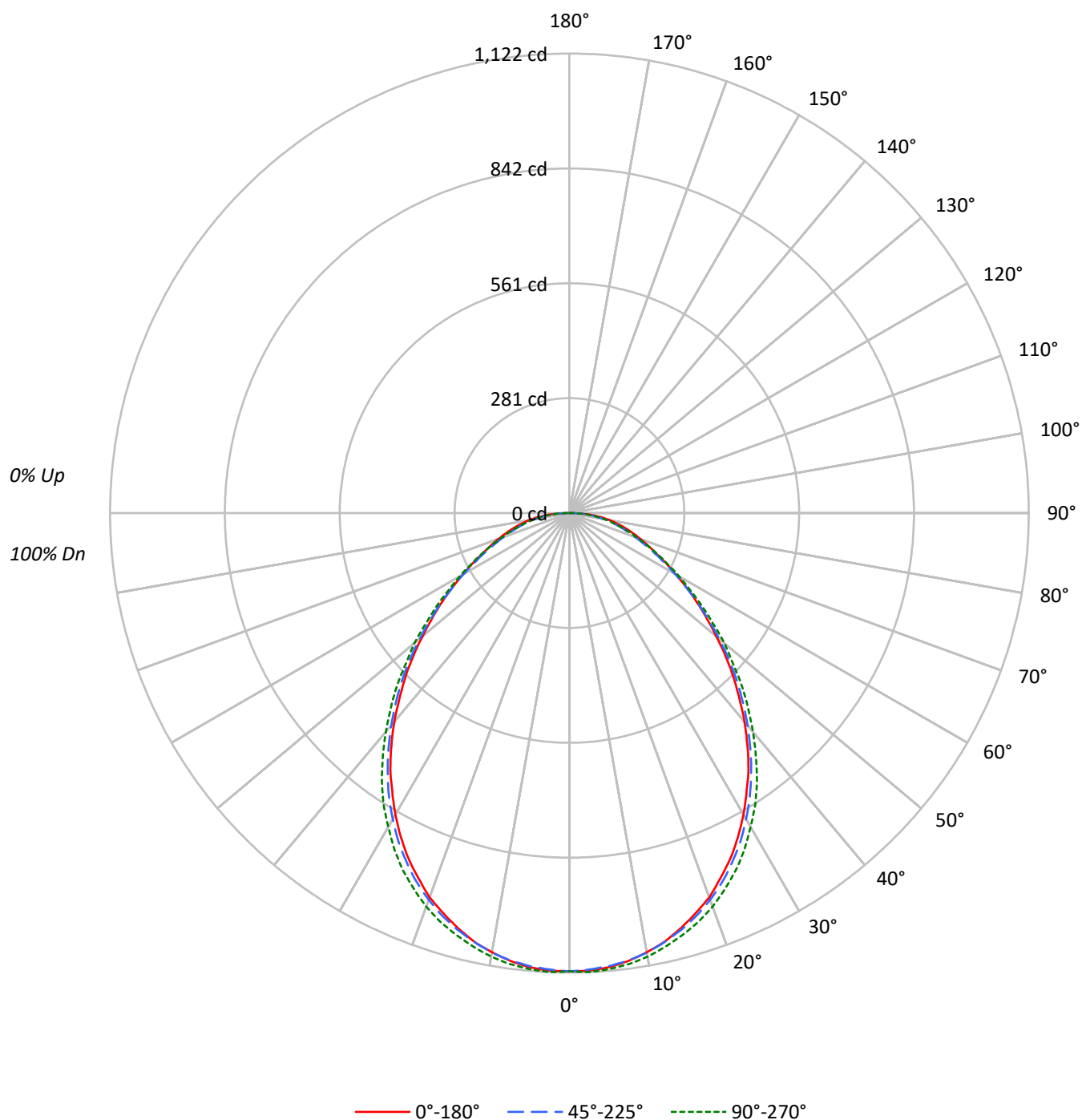
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	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	74	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	49	47		
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42		
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38		
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	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°	3583	3583	3583
5°	3579	3569	3593
10°	3541	3544	3576
15°	3481	3494	3537
20°	3403	3425	3485
25°	3288	3325	3399
30°	3145	3192	3272
35°	2981	3025	3123
40°	2783	2829	2916
45°	2567	2616	2696
50°	2334	2377	2462
55°	2122	2138	2204
60°	1925	1910	1981
65°	1771	1722	1793
70°	1720	1595	1655
75°	1741	1562	1583
80°	1853	1597	1619
85°	2050	1709	1687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	4.2
10°-20°	297.5	11.7
20°-30°	433.6	17.1
30°-40°	484.7	19.1
40°-50°	445.8	17.6
50°-60°	345.4	13.6
60°-70°	231.5	9.1
70°-80°	138.5	5.5
80°-90°	51.8	2.0
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°	836.7	33.0
0°-40°	1321.4	52.1
0°-60°	2112.6	83.4
0°-90°	2534.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1113	1111	1110	1115	1118	105
15°	1050	1051	1054	1062	1067	296
25°	931	933	941	954	962	427
35°	763	764	774	789	799	475
45°	567	568	578	586	595	436
55°	380	381	383	389	395	341
65°	234	232	227	230	237	235
75°	141	135	126	125	128	149
85°	56	56	46	44	46	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.9	1118.9	1118.9	1118.9	1118.9
2.5°	1118.3	1116.0	1115.5	1118.9	1121.9
5°	1113.2	1110.9	1110.3	1114.9	1117.8
7.5°	1103.3	1101.5	1102.1	1106.7	1110.9
10°	1088.8	1088.2	1089.9	1095.7	1099.8
12.5°	1072.4	1071.3	1073.0	1080.6	1084.6
15°	1049.8	1050.9	1053.8	1062.0	1066.7
17.5°	1024.8	1026.0	1031.2	1039.3	1046.9
20°	998.6	998.0	1005.0	1016.1	1022.5
22.5°	964.3	967.2	975.4	987.0	993.4
25°	930.6	932.9	941.1	954.4	962.0
27.5°	891.6	895.8	904.5	917.3	926.0
30°	850.4	853.9	863.2	877.7	884.7
32.5°	805.6	810.3	820.2	835.9	844.6
35°	762.6	763.8	773.7	788.8	798.7
37.5°	713.8	716.7	726.0	742.9	748.1
40°	665.6	667.9	676.6	690.6	697.5
42.5°	613.9	617.9	627.2	637.7	645.8
45°	566.7	568.5	577.7	586.5	595.2
47.5°	517.4	519.1	527.2	536.6	540.0
50°	468.5	470.8	477.2	486.5	494.1
52.5°	423.2	424.3	427.2	437.7	441.2
55°	380.1	380.7	383.0	388.9	394.7
57.5°	339.4	338.9	338.3	343.6	348.7
60°	300.5	299.4	298.2	302.3	309.3
62.5°	266.3	265.1	260.4	265.1	270.9
65°	233.7	231.9	227.3	229.6	236.6
67.5°	208.1	204.6	197.0	200.0	205.2
70°	183.7	179.1	170.3	172.6	176.7
72.5°	162.2	155.2	147.7	148.3	152.3
75°	140.7	134.8	126.2	125.0	127.9
77.5°	120.3	115.7	106.4	104.7	107.0
80°	100.5	95.9	86.6	83.2	87.8
82.5°	79.0	77.3	66.8	64.5	66.3
85°	55.8	56.4	46.5	43.6	45.9
87.5°	28.5	29.7	23.8	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)