

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: P257181

Luminaire Tested: **22GR-LD5-85-F125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-F125-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7270.9 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

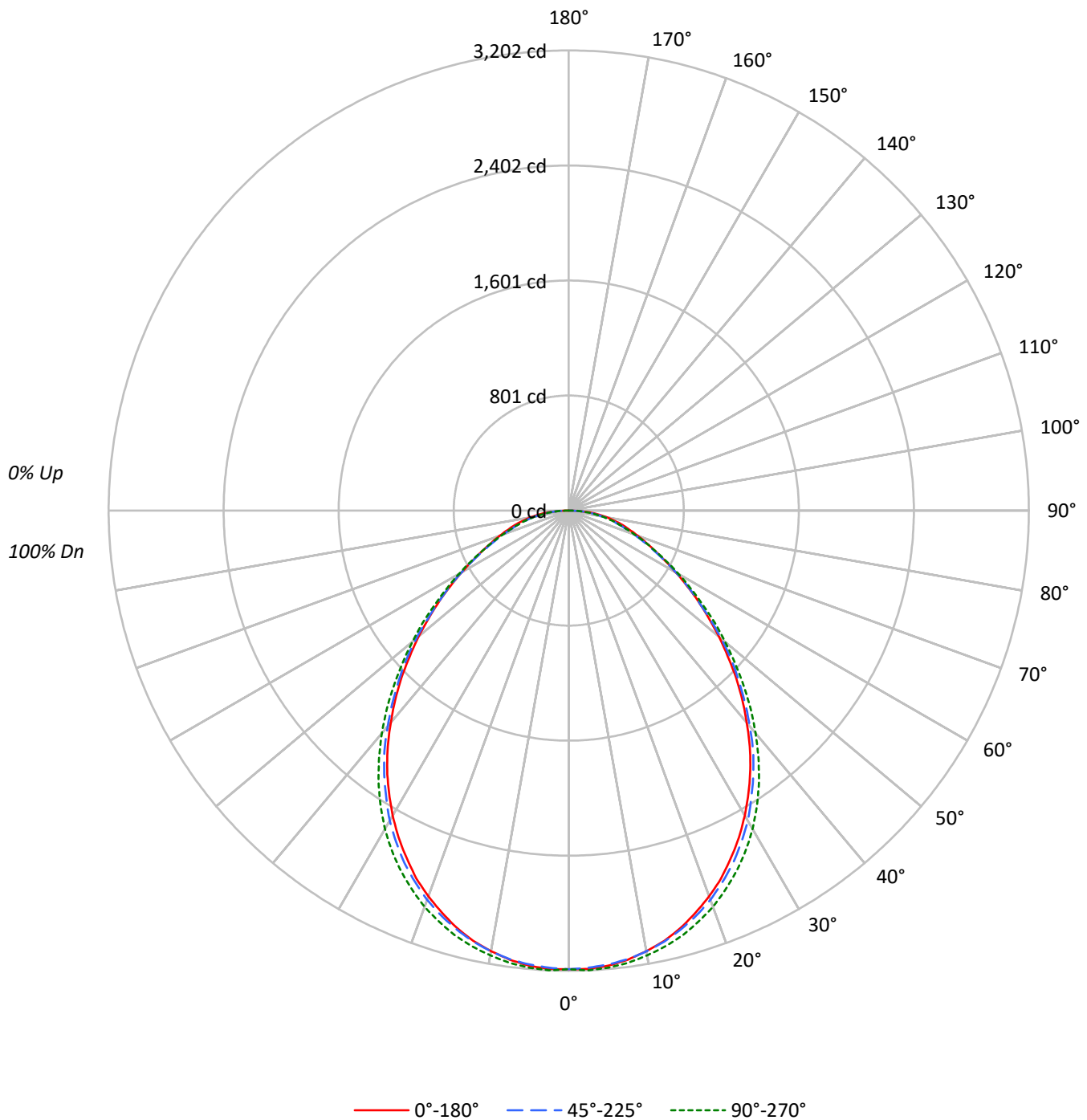
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	110	105	101	97	107	103	99	96	99	96	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	73		73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54		54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48		48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42		42
7	68	55	46	41	66	54	46	40	53	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°	10222	10222	10222
5°	10218	10191	10261
10°	10122	10127	10221
15°	9968	10001	10146
20°	9734	9820	9999
25°	9431	9562	9771
30°	9058	9214	9458
35°	8614	8752	9023
40°	8054	8188	8456
45°	7457	7572	7794
50°	6791	6901	7077
55°	6132	6151	6330
60°	5501	5522	5652
65°	5011	4910	5024
70°	4771	4502	4582
75°	4801	4342	4363
80°	4979	4387	4356
85°	5457	4652	4402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	4.1
10°-20°	851.9	11.7
20°-30°	1246.8	17.1
30°-40°	1401.9	19.3
40°-50°	1292.8	17.8
50°-60°	996.4	13.7
60°-70°	657.5	9.0
70°-80°	382.7	5.3
80°-90°	139.4	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°	2400.3	33.0
0°-40°	3802.1	52.3
0°-60°	6091.3	83.8
0°-90°	7270.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7270.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3192	3192	3192	3192	3192	
5°	3178	3172	3170	3185	3192	301
15°	3006	3006	3016	3044	3060	846
25°	2669	2682	2706	2743	2765	1228
35°	2203	2214	2239	2284	2308	1374
45°	1647	1648	1672	1706	1721	1268
55°	1098	1097	1102	1120	1134	985
65°	661	658	648	653	663	663
75°	388	371	351	344	353	409
85°	148	147	127	116	120	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3191.9	3191.9	3191.9	3191.9	3191.9
2.5°	3191.9	3185.2	3183.5	3195.3	3202.1
5°	3178.5	3171.7	3170.0	3185.2	3191.9
7.5°	3151.5	3146.4	3148.1	3165.0	3173.4
10°	3112.7	3111.0	3114.3	3132.9	3143.0
12.5°	3067.1	3065.4	3072.2	3092.4	3105.9
15°	3006.4	3006.4	3016.5	3043.5	3060.3
17.5°	2933.9	2938.9	2954.1	2981.0	2999.6
20°	2856.3	2861.3	2881.5	2911.9	2933.9
22.5°	2770.2	2777.0	2797.2	2834.3	2852.9
25°	2669.0	2682.4	2706.1	2743.2	2765.1
27.5°	2564.4	2579.6	2601.5	2647.1	2667.3
30°	2449.6	2459.7	2491.8	2534.0	2557.6
32.5°	2328.2	2338.3	2365.3	2415.9	2436.2
35°	2203.3	2213.5	2238.7	2284.3	2307.9
37.5°	2068.4	2076.8	2107.2	2142.6	2167.9
40°	1926.6	1938.4	1958.7	2000.9	2022.8
42.5°	1788.3	1793.3	1815.3	1857.5	1874.3
45°	1646.6	1648.2	1671.9	1705.6	1720.8
47.5°	1499.8	1503.2	1531.9	1552.1	1567.3
50°	1363.1	1364.8	1385.1	1403.7	1420.5
52.5°	1226.5	1226.5	1236.7	1256.9	1278.8
55°	1098.3	1096.6	1101.7	1120.2	1133.7
57.5°	976.8	975.1	981.9	993.6	1003.8
60°	858.8	855.4	862.1	868.9	882.4
62.5°	754.1	757.5	749.1	759.2	769.3
65°	661.3	658.0	647.9	652.9	663.0
67.5°	582.1	577.0	560.2	563.5	575.3
70°	509.5	499.4	480.8	480.8	489.3
72.5°	443.7	433.6	410.0	411.7	415.1
75°	388.0	371.2	350.9	344.2	352.6
77.5°	327.3	313.8	295.2	290.2	293.6
80°	270.0	259.8	237.9	231.1	236.2
82.5°	214.3	205.8	180.5	175.4	177.1
85°	148.5	146.8	126.6	116.4	119.8
87.5°	79.3	81.0	65.8	59.1	62.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)