

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: P234091

Luminaire Tested: **22GR-LD5-70-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234091
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-LD5-70-F1-UNV-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6012.2 lumens
Efficiency: N/A
Efficacy: 93.7 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

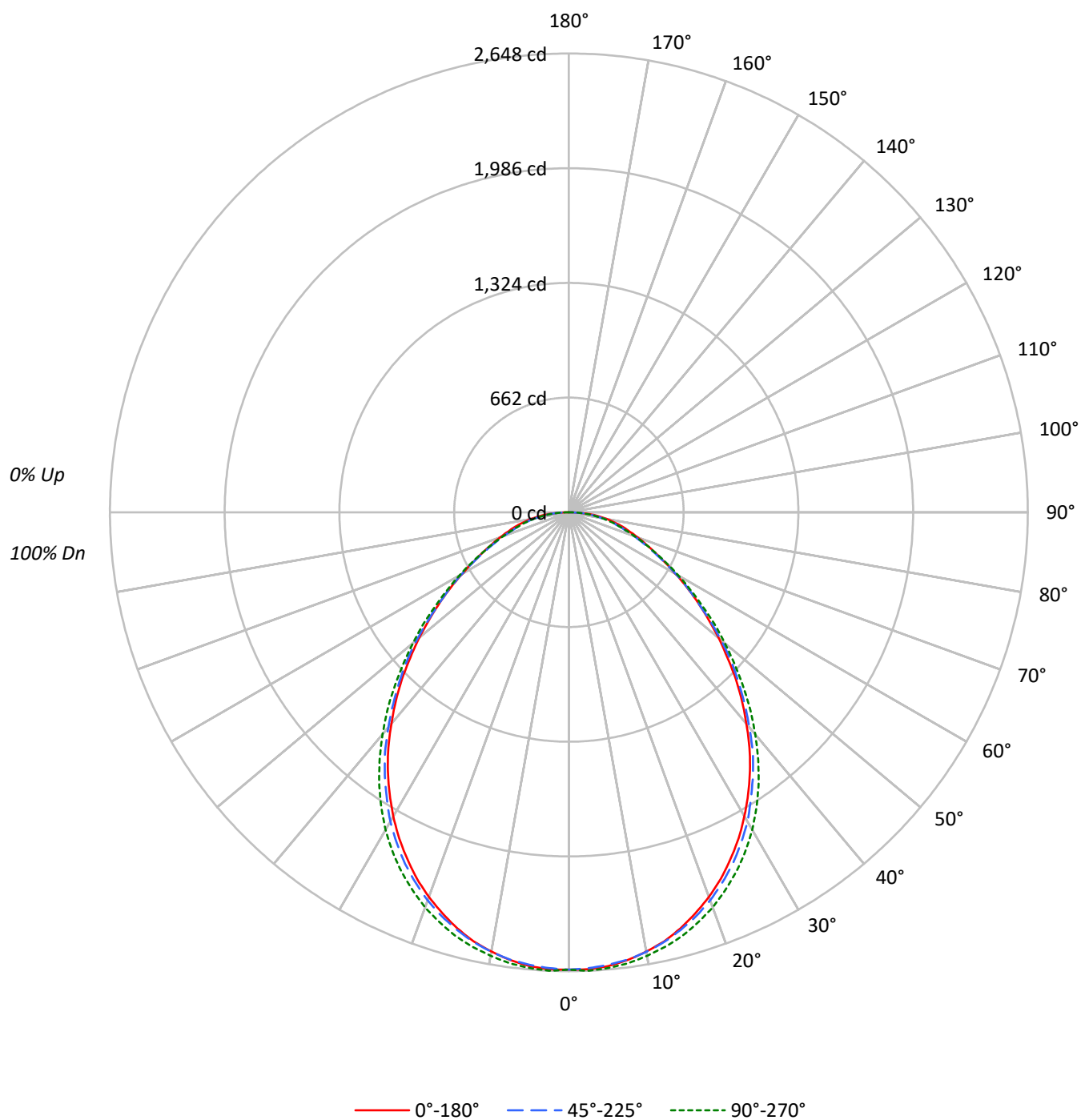
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	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°	8453	8453	8453
5°	8449	8427	8485
10°	8370	8375	8451
15°	8242	8270	8390
20°	8049	8120	8268
25°	7798	7907	8079
30°	7490	7620	7821
35°	7123	7237	7461
40°	6660	6771	6992
45°	6167	6261	6445
50°	5616	5706	5852
55°	5071	5086	5234
60°	4548	4566	4673
65°	4144	4059	4154
70°	3945	3723	3788
75°	3971	3591	3607
80°	4116	3628	3602
85°	4509	3847	3641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	4.1
10°-20°	704.4	11.7
20°-30°	1031.0	17.1
30°-40°	1159.2	19.3
40°-50°	1069.0	17.8
50°-60°	823.9	13.7
60°-70°	543.7	9.0
70°-80°	316.4	5.3
80°-90°	115.3	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°	1984.8	33.0
0°-40°	3143.9	52.3
0°-60°	5036.9	83.8
0°-90°	6012.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6012.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2639	2639	2639	2639	2639	
5°	2628	2623	2621	2634	2639	249
15°	2486	2486	2494	2517	2531	700
25°	2207	2218	2238	2268	2286	1015
35°	1822	1830	1851	1889	1908	1136
45°	1362	1363	1382	1410	1423	1048
55°	908	907	911	926	938	815
65°	547	544	536	540	548	548
75°	321	307	290	285	292	338
85°	123	121	105	96	99	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2639.4	2639.4	2639.4	2639.4	2639.4
2.5°	2639.4	2633.8	2632.5	2642.2	2647.8
5°	2628.2	2622.7	2621.3	2633.8	2639.4
7.5°	2605.9	2601.8	2603.1	2617.1	2624.0
10°	2573.8	2572.4	2575.3	2590.6	2598.9
12.5°	2536.1	2534.8	2540.4	2557.1	2568.2
15°	2485.9	2485.9	2494.3	2516.6	2530.6
17.5°	2426.0	2430.2	2442.7	2465.0	2480.4
20°	2361.8	2365.9	2382.7	2407.8	2426.0
22.5°	2290.6	2296.2	2313.0	2343.7	2359.0
25°	2206.9	2218.1	2237.6	2268.3	2286.5
27.5°	2120.4	2133.0	2151.1	2188.8	2205.6
30°	2025.6	2034.0	2060.5	2095.3	2114.9
32.5°	1925.1	1933.5	1955.8	1997.7	2014.5
35°	1821.9	1830.3	1851.2	1888.9	1908.4
37.5°	1710.3	1717.2	1742.4	1771.7	1792.6
40°	1593.1	1602.9	1619.6	1654.6	1672.6
42.5°	1478.8	1482.9	1501.0	1536.0	1549.9
45°	1361.6	1362.9	1382.4	1410.4	1423.0
47.5°	1240.2	1243.0	1266.7	1283.5	1296.0
50°	1127.2	1128.6	1145.3	1160.7	1174.6
52.5°	1014.2	1014.2	1022.5	1039.3	1057.5
55°	908.2	906.8	911.0	926.3	937.5
57.5°	807.7	806.3	811.9	821.6	830.1
60°	710.1	707.3	712.9	718.4	729.6
62.5°	623.6	626.3	619.4	627.8	636.1
65°	546.9	544.0	535.7	539.9	548.2
67.5°	481.3	477.1	463.1	465.9	475.7
70°	421.3	413.0	397.6	397.6	404.5
72.5°	366.9	358.5	339.0	340.4	343.1
75°	320.9	306.9	290.2	284.6	291.5
77.5°	270.6	259.5	244.2	239.9	242.8
80°	223.2	214.8	196.7	191.1	195.3
82.5°	177.2	170.2	149.3	145.1	146.5
85°	122.7	121.3	104.7	96.2	99.1
87.5°	65.5	67.0	54.4	48.8	51.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)