

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: P234110

Luminaire Tested: **22GR-LD5-70-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-A-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5923.6 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

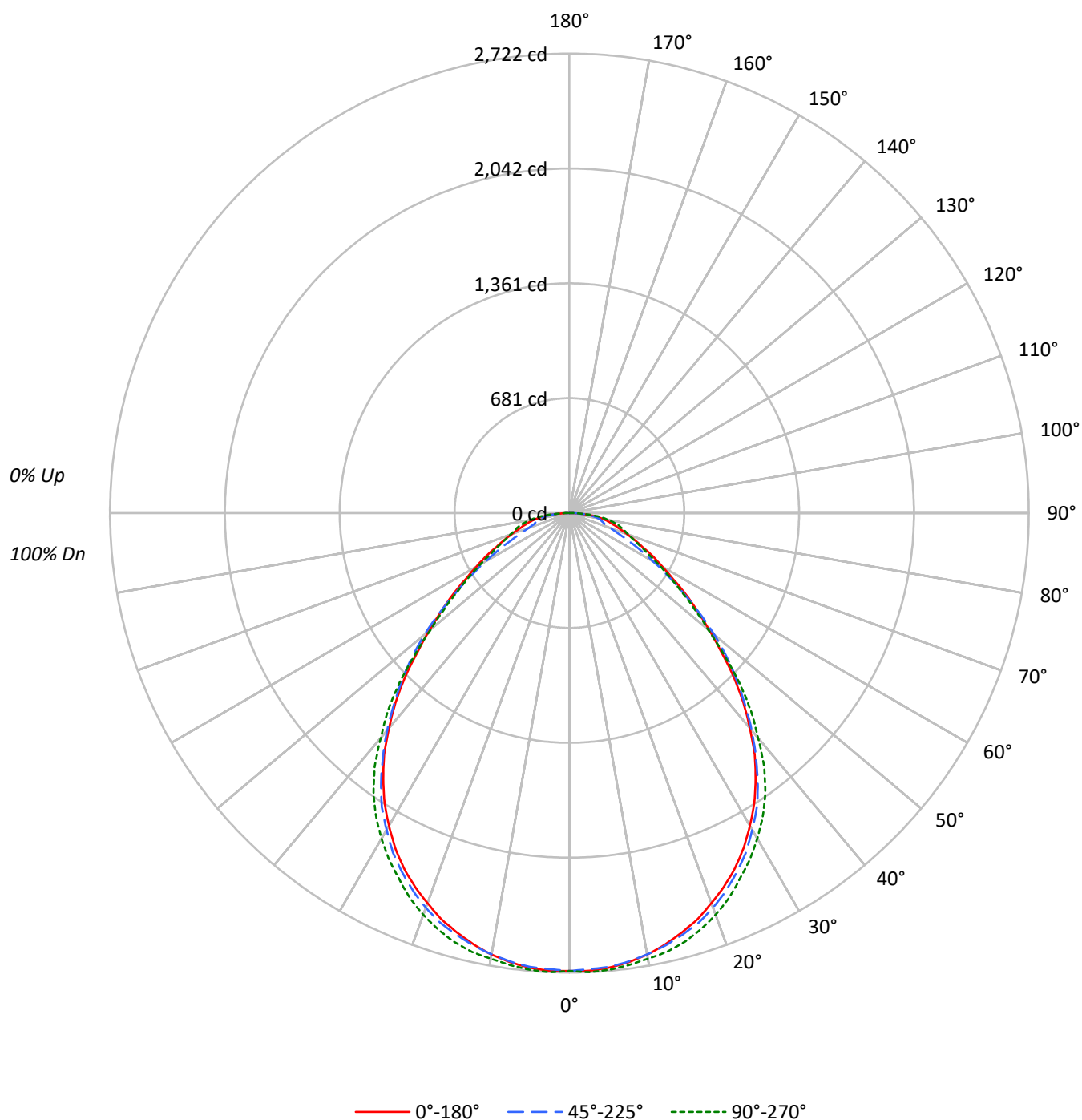
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8688	8688	8688
5°	8690	8677	8730
10°	8638	8633	8719
15°	8528	8574	8725
20°	8381	8479	8630
25°	8203	8295	8446
30°	7906	8013	8232
35°	7518	7604	7911
40°	6950	7025	7272
45°	6243	6356	6456
50°	5398	5591	5343
55°	4710	4587	4526
60°	4079	3673	3920
65°	3646	2883	3520
70°	3382	2388	3472
75°	3377	2524	3854
80°	3736	3178	4347
85°	3902	3447	4913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	4.3
10°-20°	731.2	12.3
20°-30°	1081.4	18.3
30°-40°	1220.3	20.6
40°-50°	1075.7	18.2
50°-60°	737.9	12.5
60°-70°	435.4	7.4
70°-80°	271.7	4.6
80°-90°	113.3	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°	2069.2	34.9
0°-40°	3289.5	55.5
0°-60°	5103.2	86.1
0°-90°	5923.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5923.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2713	2713	2713	2713	2713	
5°	2703	2698	2699	2709	2716	257
15°	2572	2575	2586	2618	2632	725
25°	2321	2330	2348	2378	2390	1066
35°	1923	1940	1945	1992	2024	1198
45°	1378	1385	1403	1412	1425	1059
55°	844	823	822	794	811	757
65°	481	423	380	440	464	485
75°	273	245	204	285	312	293
85°	106	99	94	123	134	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2712.8	2712.8	2712.8	2712.8	2712.8
2.5°	2714.2	2707.3	2704.5	2715.6	2722.5
5°	2703.2	2697.6	2699.0	2708.7	2715.6
7.5°	2683.9	2679.7	2679.7	2693.5	2700.4
10°	2656.3	2654.9	2654.9	2671.5	2681.2
12.5°	2617.7	2619.1	2624.6	2646.6	2663.2
15°	2572.2	2575.0	2586.0	2617.7	2631.5
17.5°	2522.6	2522.6	2544.6	2569.5	2586.0
20°	2459.2	2463.3	2488.1	2515.7	2532.2
22.5°	2394.4	2401.2	2422.0	2453.7	2468.8
25°	2321.4	2329.6	2347.5	2377.9	2390.3
27.5°	2235.8	2246.9	2266.2	2288.3	2314.5
30°	2138.0	2154.6	2166.9	2197.2	2226.2
32.5°	2038.7	2053.9	2067.7	2099.4	2132.5
35°	1923.0	1939.5	1945.1	1991.9	2023.6
37.5°	1804.4	1811.3	1814.1	1860.9	1895.4
40°	1662.4	1676.2	1680.4	1717.6	1739.6
42.5°	1525.9	1531.4	1539.8	1567.3	1593.5
45°	1378.4	1385.3	1403.3	1411.5	1425.4
47.5°	1224.1	1244.7	1265.4	1239.2	1240.7
50°	1083.5	1100.0	1122.1	1072.4	1072.4
52.5°	958.0	966.3	967.6	926.3	934.6
55°	843.6	823.0	821.5	794.0	810.6
57.5°	729.2	701.7	692.0	683.7	703.0
60°	636.8	587.3	573.4	585.8	612.0
62.5°	561.0	497.6	471.4	503.1	526.6
65°	481.1	423.2	380.5	439.7	464.5
67.5°	419.0	363.9	308.8	392.9	410.8
70°	361.2	318.4	255.0	357.0	370.8
72.5°	314.3	281.2	220.6	322.6	339.1
75°	272.9	245.4	204.0	285.3	311.5
77.5°	239.9	209.5	190.2	246.8	278.5
80°	202.6	172.3	172.3	206.8	235.7
82.5°	159.9	135.1	139.2	168.2	188.9
85°	106.2	99.3	93.8	122.7	133.7
87.5°	53.7	55.2	49.6	63.4	64.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)