

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: P234108

Luminaire Tested: **22GR-LD5-60-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234108
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-LD5-60-A-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5918.9 lumens
Efficiency: N/A
Efficacy: 119.4 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

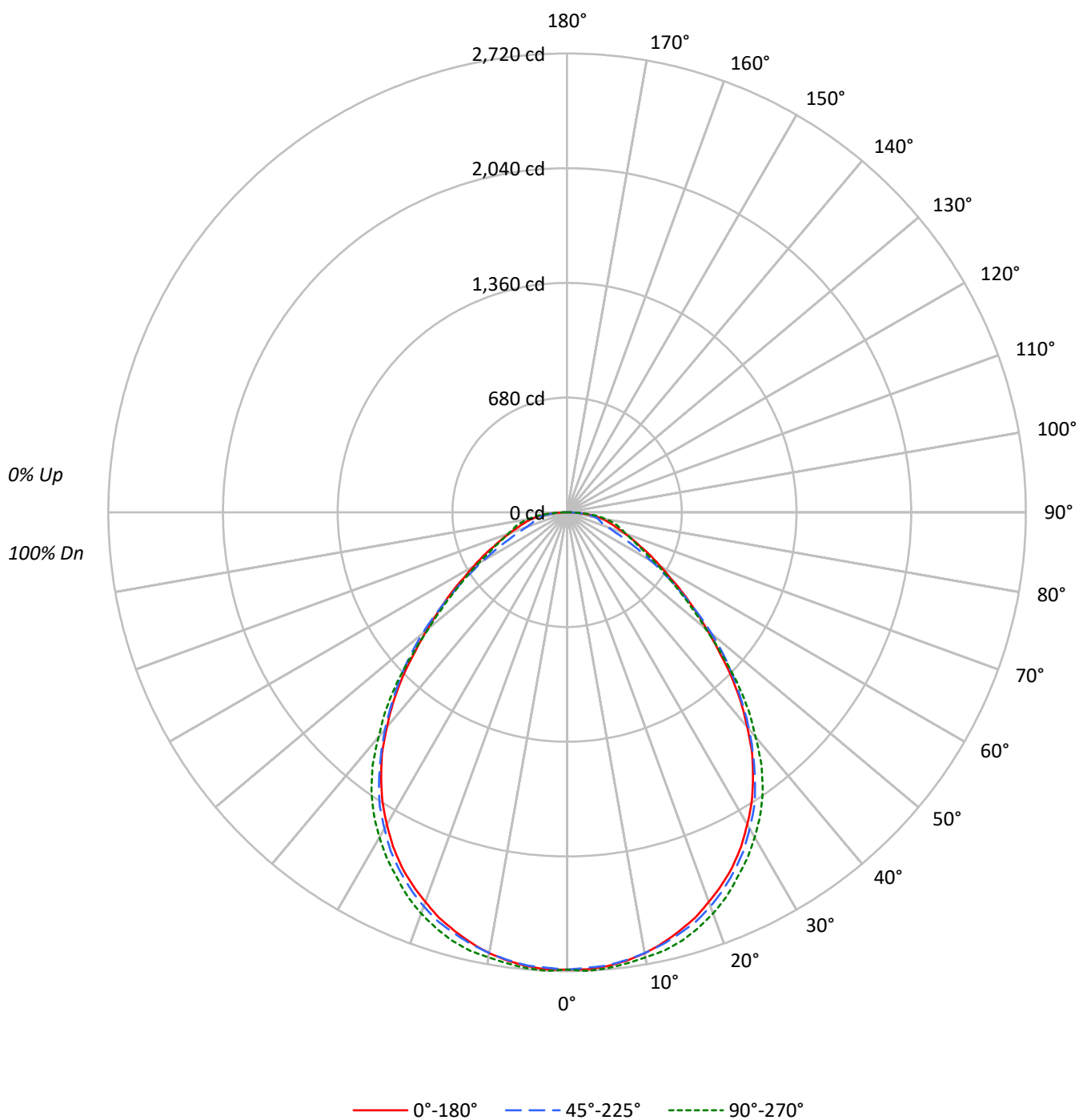
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8681	8681	8681
5°	8683	8670	8723
10°	8631	8627	8711
15°	8521	8567	8718
20°	8374	8473	8623
25°	8196	8288	8440
30°	7900	8007	8226
35°	7512	7598	7905
40°	6944	7019	7267
45°	6238	6350	6450
50°	5394	5586	5339
55°	4706	4583	4522
60°	4076	3670	3917
65°	3643	2880	3518
70°	3379	2386	3470
75°	3374	2522	3852
80°	3735	3176	4343
85°	3895	3439	4909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	4.3
10°-20°	730.6	12.3
20°-30°	1080.5	18.3
30°-40°	1219.3	20.6
40°-50°	1074.8	18.2
50°-60°	737.3	12.5
60°-70°	435.1	7.4
70°-80°	271.5	4.6
80°-90°	113.2	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°	2067.6	34.9
0°-40°	3286.9	55.5
0°-60°	5099.1	86.1
0°-90°	5918.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5918.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2711	2711	2711	2711	2711	
5°	2701	2696	2697	2706	2713	256
15°	2570	2573	2584	2616	2629	724
25°	2320	2328	2346	2376	2388	1065
35°	1922	1938	1944	1990	2022	1197
45°	1377	1384	1402	1410	1424	1058
55°	843	822	821	793	810	756
65°	481	423	380	439	464	484
75°	273	245	204	285	311	292
85°	106	99	94	123	134	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2710.6	2710.6	2710.6	2710.6	2710.6
2.5°	2712.0	2705.2	2702.4	2713.4	2720.3
5°	2701.0	2695.5	2696.9	2706.5	2713.4
7.5°	2681.7	2677.6	2677.6	2691.3	2698.2
10°	2654.2	2652.8	2652.8	2669.3	2678.9
12.5°	2615.6	2617.0	2622.5	2644.6	2661.0
15°	2570.1	2572.9	2583.9	2615.6	2629.4
17.5°	2520.6	2520.6	2542.6	2567.4	2583.9
20°	2457.2	2461.4	2486.1	2513.7	2530.3
22.5°	2392.5	2399.4	2420.1	2451.7	2466.8
25°	2319.5	2327.8	2345.6	2375.9	2388.4
27.5°	2234.0	2245.1	2264.4	2286.5	2312.6
30°	2136.3	2152.8	2165.3	2195.6	2224.4
32.5°	2037.1	2052.2	2066.1	2097.7	2130.8
35°	1921.5	1937.9	1943.5	1990.3	2021.9
37.5°	1803.0	1809.8	1812.6	1859.4	1893.9
40°	1661.1	1674.9	1679.0	1716.2	1738.2
42.5°	1524.7	1530.3	1538.5	1566.0	1592.2
45°	1377.4	1384.3	1402.1	1410.4	1424.2
47.5°	1223.1	1243.8	1264.4	1238.2	1239.6
50°	1082.6	1099.1	1121.2	1071.6	1071.6
52.5°	957.2	965.5	966.9	925.6	933.8
55°	842.9	822.3	820.9	793.3	809.9
57.5°	728.6	701.1	691.4	683.1	702.4
60°	636.4	586.8	573.0	585.4	611.5
62.5°	560.6	497.2	471.0	502.8	526.2
65°	480.7	422.9	380.1	439.3	464.2
67.5°	418.7	363.6	308.5	392.6	410.4
70°	360.9	318.1	254.8	356.7	370.6
72.5°	314.0	281.0	220.4	322.3	338.8
75°	272.7	245.2	203.8	285.1	311.3
77.5°	239.7	209.4	190.1	246.5	278.2
80°	202.5	172.2	172.2	206.6	235.5
82.5°	159.8	135.0	139.1	168.1	188.7
85°	106.0	99.2	93.6	122.6	133.6
87.5°	53.7	55.1	49.6	63.3	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)