

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: P293522

Luminaire Tested: **24GR-LD5-72-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6906.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

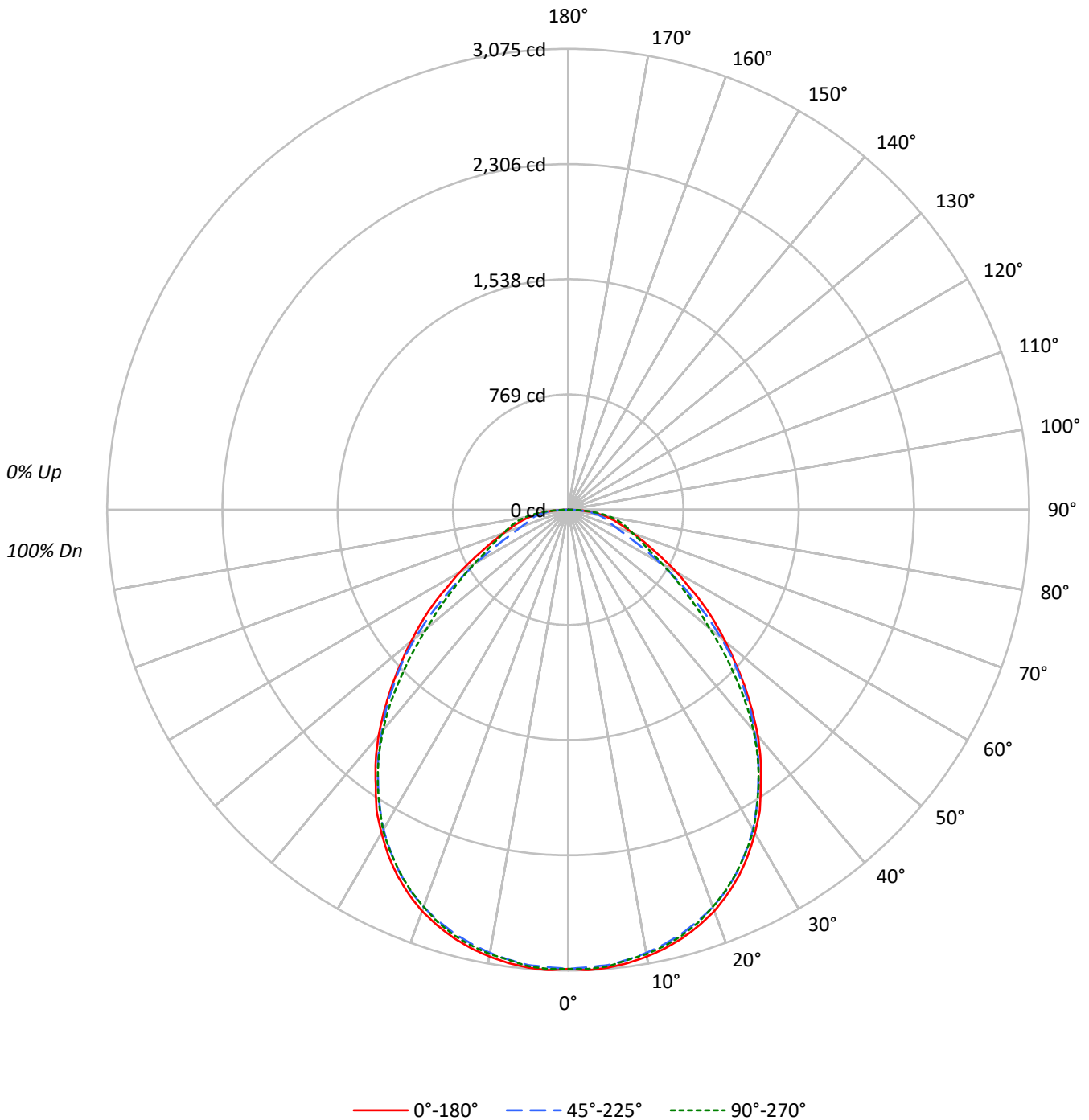
Input Watts (W): 52.173
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4123	4123	4123
5°	4143	4120	4130
10°	4135	4102	4113
15°	4120	4078	4096
20°	4080	4039	4038
25°	4001	3958	3955
30°	3869	3829	3837
35°	3675	3633	3638
40°	3455	3395	3375
45°	3167	3124	3001
50°	2863	2785	2575
55°	2570	2340	2220
60°	2251	1883	1952
65°	1963	1481	1797
70°	1796	1293	1796
75°	1797	1376	1980
80°	1951	1620	2257
85°	2141	1828	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	4.2
10°-20°	828.1	12.0
20°-30°	1227.9	17.8
30°-40°	1385.2	20.1
40°-50°	1254.6	18.2
50°-60°	905.1	13.1
60°-70°	540.4	7.8
70°-80°	334.0	4.8
80°-90°	140.7	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°	2346.1	34.0
0°-40°	3731.2	54.0
0°-60°	5890.9	85.3
0°-90°	6906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3064	3064	3064	3064	3064	
5°	3067	3063	3050	3047	3058	291
15°	2957	2939	2928	2929	2940	834
25°	2695	2680	2666	2657	2664	1238
35°	2237	2234	2212	2213	2215	1400
45°	1664	1654	1642	1601	1577	1283
55°	1096	1062	998	948	946	978
65°	617	543	465	528	564	620
75°	346	300	265	330	381	369
85°	139	122	118	155	157	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3064.1	3064.1	3064.1	3064.1	3064.1
2.5°	3074.8	3066.2	3055.6	3062.0	3067.3
5°	3067.3	3063.0	3050.2	3047.0	3057.7
7.5°	3051.3	3040.6	3028.9	3034.2	3030.0
10°	3026.8	3017.2	3002.2	3003.3	3010.8
12.5°	2996.9	2985.2	2969.2	2973.4	2979.8
15°	2957.4	2939.3	2927.6	2928.6	2940.4
17.5°	2907.3	2893.4	2878.5	2881.7	2887.0
20°	2849.7	2842.2	2820.9	2814.5	2819.8
22.5°	2777.1	2763.2	2751.5	2748.3	2749.4
25°	2695.0	2680.0	2666.2	2656.6	2664.0
27.5°	2598.9	2586.1	2568.0	2564.8	2571.2
30°	2490.1	2480.5	2464.5	2460.3	2469.9
32.5°	2379.2	2363.2	2340.8	2340.8	2342.9
35°	2237.3	2234.1	2211.7	2212.7	2214.9
37.5°	2109.2	2094.3	2081.5	2068.7	2075.1
40°	1967.3	1950.3	1933.2	1924.7	1921.5
42.5°	1814.8	1802.0	1794.5	1763.6	1756.1
45°	1664.4	1653.7	1641.9	1601.4	1576.9
47.5°	1510.7	1508.6	1499.0	1427.5	1403.0
50°	1367.8	1364.6	1330.4	1254.7	1230.1
52.5°	1232.3	1210.9	1166.1	1091.4	1087.2
55°	1095.7	1061.6	997.5	948.5	946.3
57.5°	951.7	911.1	846.0	819.4	833.2
60°	836.4	774.6	699.9	703.1	725.5
62.5°	717.0	647.6	574.0	606.0	632.7
65°	616.7	543.0	465.2	528.1	564.4
67.5°	529.2	460.9	386.2	470.5	505.7
70°	456.6	401.2	328.6	417.2	456.6
72.5°	399.0	347.8	291.3	374.5	420.4
75°	345.7	299.8	264.6	329.7	380.9
77.5°	299.8	255.0	239.0	291.3	341.4
80°	251.8	211.2	209.1	253.9	291.3
82.5°	196.3	168.6	168.6	212.3	234.7
85°	138.7	121.6	118.4	154.7	156.8
87.5°	71.5	68.3	61.9	81.1	81.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)