

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: P293449

Luminaire Tested: **24GR-LD5-72-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293449
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-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7315.0 lumens
Efficiency: N/A
Efficacy: 139.2 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

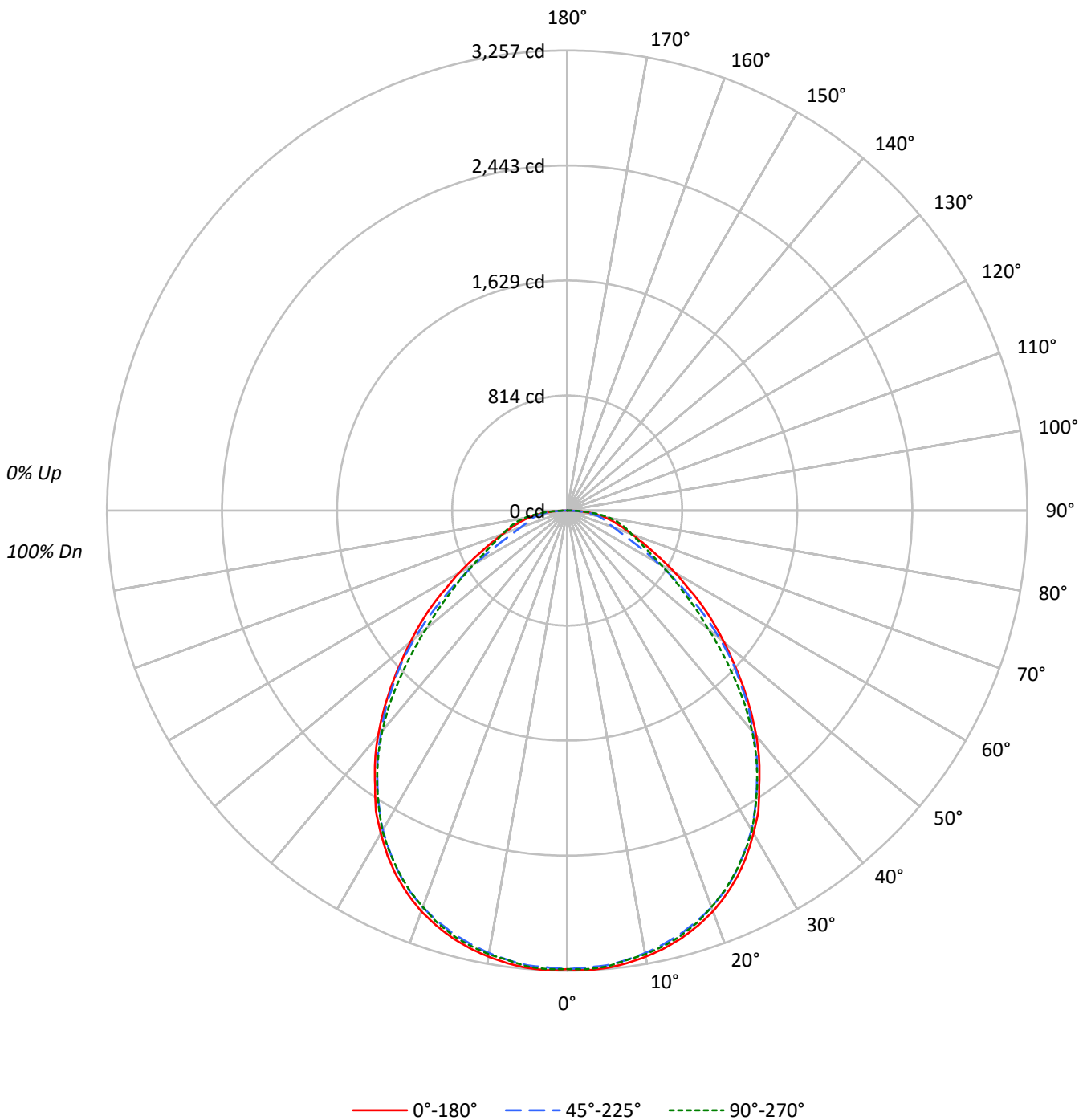
Input Watts (W): 52.545
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4367	4367	4367
5°	4388	4364	4374
10°	4380	4345	4357
15°	4364	4319	4338
20°	4322	4278	4277
25°	4238	4193	4189
30°	4098	4056	4064
35°	3892	3848	3853
40°	3660	3597	3575
45°	3354	3309	3178
50°	3033	2950	2727
55°	2723	2479	2351
60°	2384	1995	2068
65°	2080	1569	1903
70°	1903	1369	1903
75°	1903	1457	2097
80°	2066	1716	2390
85°	2268	1936	2564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	4.2
10°-20°	877.1	12.0
20°-30°	1300.6	17.8
30°-40°	1467.2	20.1
40°-50°	1328.9	18.2
50°-60°	958.7	13.1
60°-70°	572.4	7.8
70°-80°	353.8	4.8
80°-90°	149.0	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°	2485.0	34.0
0°-40°	3952.2	54.0
0°-60°	6239.8	85.3
0°-90°	7315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3246	3246	3246	3246	3246	
5°	3249	3244	3231	3228	3239	309
15°	3133	3113	3101	3102	3114	883
25°	2855	2839	2824	2814	2822	1311
35°	2370	2366	2343	2344	2346	1483
45°	1763	1752	1739	1696	1670	1359
55°	1161	1124	1057	1005	1002	1036
65°	653	575	493	559	598	657
75°	366	318	280	349	403	391
85°	147	129	125	164	166	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3245.6	3245.6	3245.6	3245.6	3245.6
2.5°	3256.9	3247.8	3236.5	3243.3	3249.0
5°	3249.0	3244.5	3230.9	3227.5	3238.8
7.5°	3232.0	3220.7	3208.3	3213.9	3209.4
10°	3206.0	3195.9	3180.0	3181.2	3189.1
12.5°	3174.4	3162.0	3145.0	3149.5	3156.3
15°	3132.6	3113.4	3100.9	3102.1	3114.5
17.5°	3079.5	3064.8	3048.9	3052.3	3058.0
20°	3018.4	3010.5	2987.9	2981.1	2986.8
22.5°	2941.6	2926.9	2914.5	2911.1	2912.2
25°	2854.6	2838.8	2824.1	2813.9	2821.8
27.5°	2752.9	2739.3	2720.1	2716.7	2723.5
30°	2637.6	2627.4	2610.5	2606.0	2616.1
32.5°	2520.1	2503.1	2479.4	2479.4	2481.6
35°	2369.8	2366.4	2342.6	2343.8	2346.0
37.5°	2234.2	2218.3	2204.8	2191.2	2198.0
40°	2083.9	2065.8	2047.7	2038.7	2035.3
42.5°	1922.3	1908.7	1900.8	1868.0	1860.1
45°	1762.9	1751.6	1739.2	1696.2	1670.3
47.5°	1600.2	1597.9	1587.8	1512.0	1486.1
50°	1448.8	1445.4	1409.2	1329.0	1303.0
52.5°	1305.2	1282.6	1235.2	1156.1	1151.5
55°	1160.6	1124.4	1056.6	1004.6	1002.4
57.5°	1008.0	965.1	896.2	867.9	882.6
60°	886.0	820.4	741.3	744.7	768.5
62.5°	759.4	686.0	608.0	641.9	670.1
65°	653.2	575.2	492.7	559.4	597.8
67.5°	560.5	488.2	409.1	498.4	535.7
70°	483.7	424.9	348.1	441.9	483.7
72.5°	422.6	368.4	308.5	396.7	445.3
75°	366.1	317.6	280.3	349.2	403.4
77.5°	317.6	270.1	253.1	308.5	361.6
80°	266.7	223.8	221.5	269.0	308.5
82.5°	207.9	178.6	178.6	224.9	248.6
85°	146.9	128.8	125.4	163.9	166.1
87.5°	75.7	72.3	65.5	85.9	85.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)