

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: P293524

Luminaire Tested: **24GR-LD5-72-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293524
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7302.0 lumens
Efficiency: N/A
Efficacy: 137.3 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

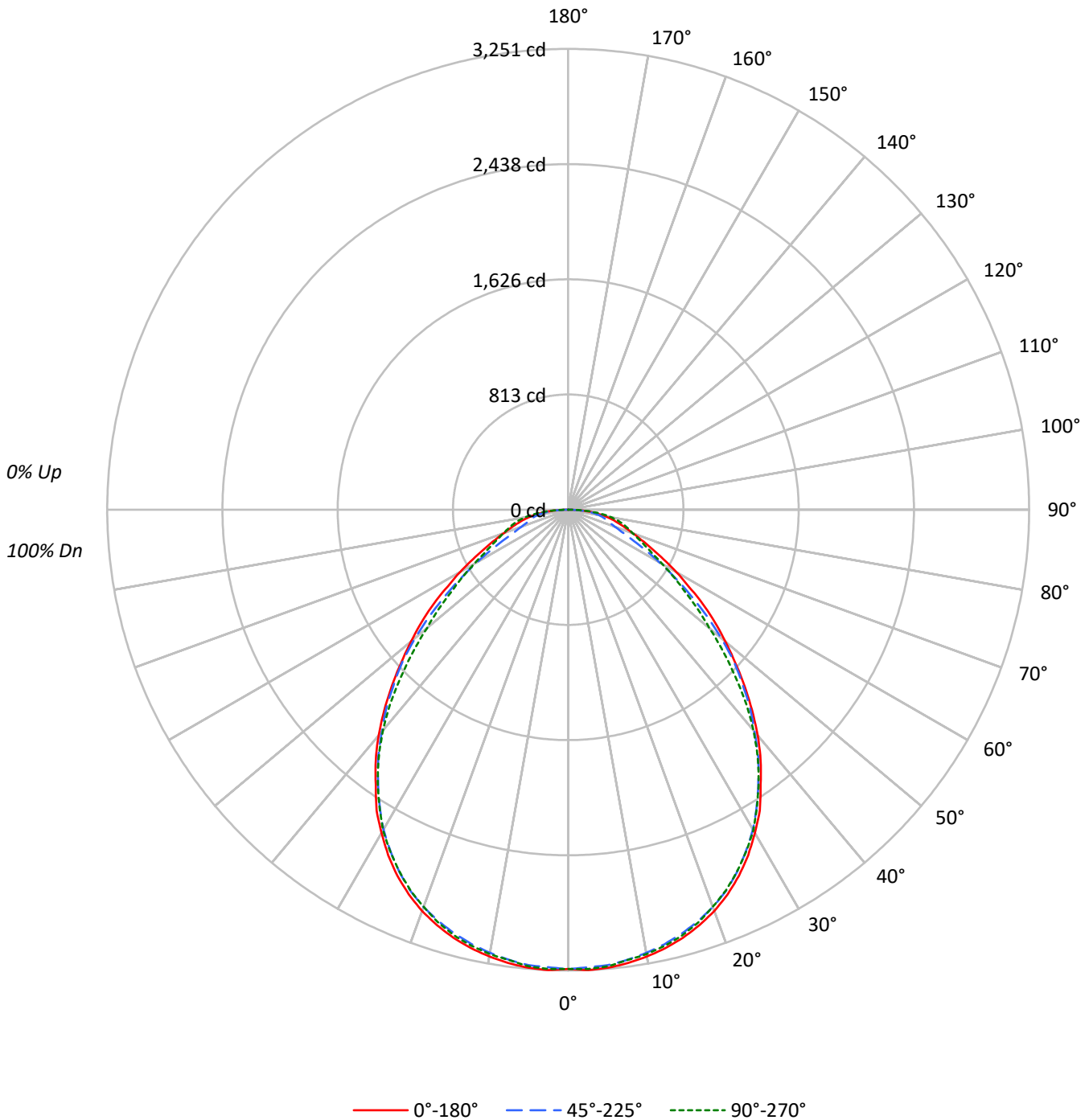
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4359	4359	4359
5°	4380	4356	4367
10°	4372	4337	4349
15°	4356	4312	4331
20°	4314	4271	4269
25°	4230	4185	4182
30°	4091	4048	4057
35°	3886	3841	3847
40°	3654	3590	3569
45°	3349	3303	3173
50°	3027	2945	2723
55°	2718	2474	2347
60°	2380	1991	2064
65°	2076	1566	1900
70°	1899	1367	1899
75°	1900	1455	2093
80°	2063	1713	2386
85°	2263	1933	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	4.2
10°-20°	875.5	12.0
20°-30°	1298.3	17.8
30°-40°	1464.6	20.1
40°-50°	1326.5	18.2
50°-60°	957.0	13.1
60°-70°	571.4	7.8
70°-80°	353.2	4.8
80°-90°	148.8	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°	2480.6	34.0
0°-40°	3945.2	54.0
0°-60°	6228.7	85.3
0°-90°	7302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3240	3240	3240	3240	3240	
5°	3243	3239	3225	3222	3233	308
15°	3127	3108	3095	3096	3109	881
25°	2850	2834	2819	2809	2817	1309
35°	2366	2362	2338	2340	2342	1480
45°	1760	1748	1736	1693	1667	1356
55°	1158	1122	1055	1003	1001	1034
65°	652	574	492	558	597	656
75°	366	317	280	349	403	390
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°	3239.8	3239.8	3239.8	3239.8	3239.8
2.5°	3251.1	3242.1	3230.8	3237.6	3243.2
5°	3243.2	3238.7	3225.1	3221.8	3233.0
7.5°	3226.3	3215.0	3202.6	3208.2	3203.7
10°	3200.3	3190.2	3174.4	3175.5	3183.4
12.5°	3168.7	3156.3	3139.4	3143.9	3150.7
15°	3127.0	3107.8	3095.4	3096.5	3109.0
17.5°	3074.0	3059.3	3043.5	3046.9	3052.6
20°	3013.1	3005.2	2982.6	2975.8	2981.5
22.5°	2936.4	2921.7	2909.3	2905.9	2907.0
25°	2849.5	2833.7	2819.0	2808.9	2816.8
27.5°	2748.0	2734.4	2715.3	2711.9	2718.6
30°	2632.9	2622.8	2605.8	2601.3	2611.5
32.5°	2515.6	2498.7	2475.0	2475.0	2477.2
35°	2365.6	2362.2	2338.5	2339.6	2341.9
37.5°	2230.2	2214.4	2200.9	2187.3	2194.1
40°	2080.2	2062.1	2044.1	2035.0	2031.7
42.5°	1918.8	1905.3	1897.4	1864.7	1856.8
45°	1759.8	1748.5	1736.1	1693.2	1667.3
47.5°	1597.3	1595.1	1584.9	1509.4	1483.4
50°	1446.2	1442.8	1406.7	1326.6	1300.7
52.5°	1302.9	1280.4	1233.0	1154.0	1149.5
55°	1158.5	1122.4	1054.7	1002.9	1000.6
57.5°	1006.2	963.4	894.6	866.4	881.0
60°	884.4	819.0	740.0	743.4	767.1
62.5°	758.1	684.7	606.9	640.7	668.9
65°	652.0	574.2	491.8	558.4	596.7
67.5°	559.5	487.3	408.4	497.5	534.7
70°	482.8	424.2	347.4	441.1	482.8
72.5°	421.9	367.8	308.0	396.0	444.5
75°	365.5	317.0	279.8	348.6	402.7
77.5°	317.0	269.6	252.7	308.0	361.0
80°	266.2	223.4	221.1	268.5	308.0
82.5°	207.6	178.2	178.2	224.5	248.2
85°	146.6	128.6	125.2	163.6	165.8
87.5°	75.6	72.2	65.4	85.7	85.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)