

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: P293652

Luminaire Tested: **24GR-LD5-72-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293652
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-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6762.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

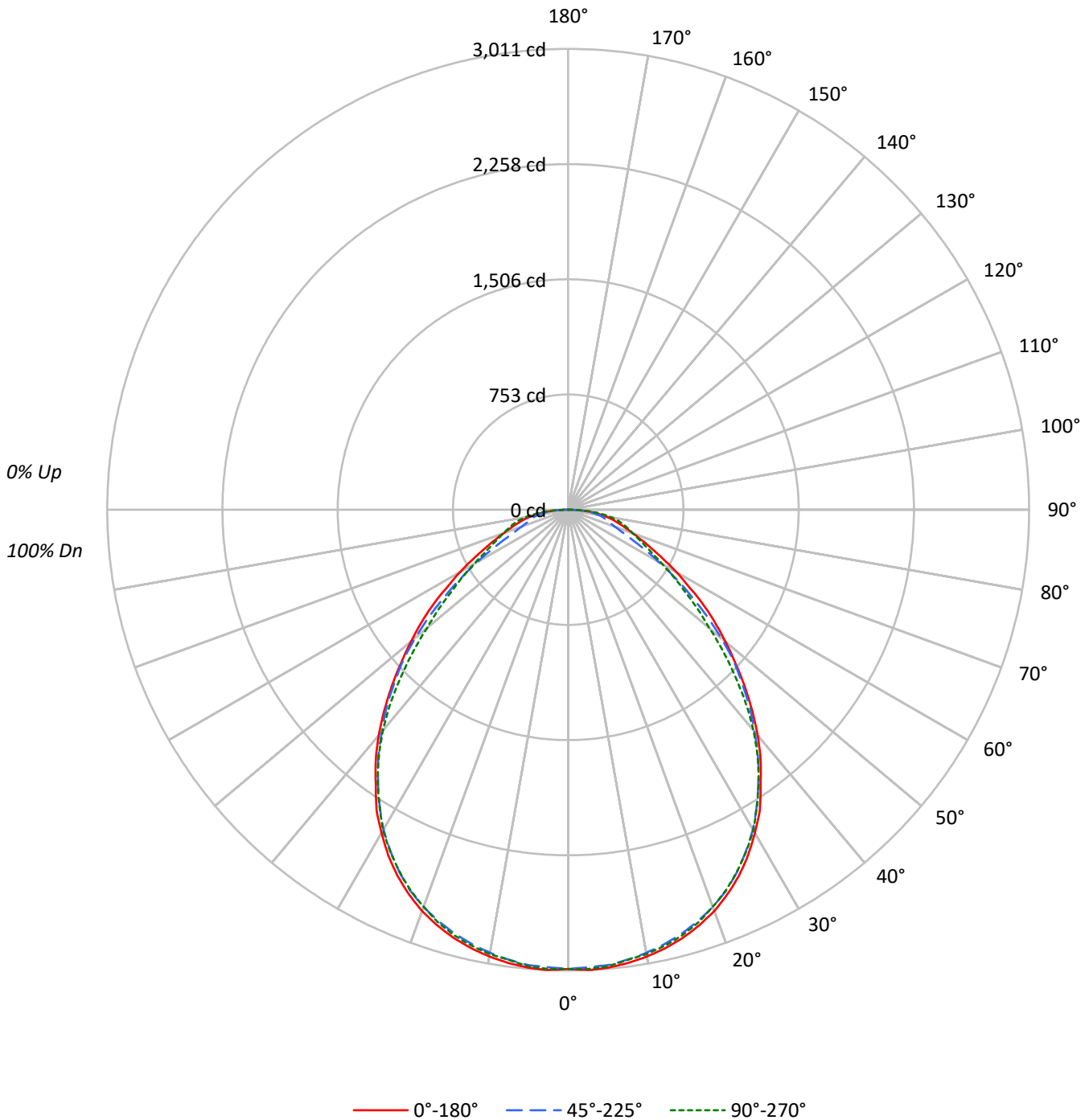
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4037	4037	4037
5°	4056	4034	4044
10°	4049	4016	4028
15°	4034	3993	4010
20°	3995	3955	3953
25°	3918	3876	3873
30°	3788	3749	3757
35°	3598	3557	3562
40°	3383	3325	3305
45°	3101	3059	2938
50°	2803	2727	2521
55°	2517	2291	2174
60°	2204	1844	1912
65°	1922	1450	1759
70°	1759	1266	1759
75°	1760	1347	1939
80°	1910	1587	2210
85°	2096	1791	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	4.2
10°-20°	810.8	12.0
20°-30°	1202.3	17.8
30°-40°	1356.3	20.1
40°-50°	1228.4	18.2
50°-60°	886.2	13.1
60°-70°	529.2	7.8
70°-80°	327.1	4.8
80°-90°	137.8	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°	2297.2	34.0
0°-40°	3653.4	54.0
0°-60°	5768.0	85.3
0°-90°	6762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3000	3000	3000	3000	3000	
5°	3003	2999	2987	2984	2994	285
15°	2896	2878	2866	2868	2879	816
25°	2639	2624	2611	2601	2608	1212
35°	2191	2188	2166	2167	2169	1371
45°	1630	1619	1608	1568	1544	1256
55°	1073	1039	977	929	927	958
65°	604	532	456	517	553	607
75°	338	294	259	323	373	361
85°	136	119	116	152	154	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3000.2	3000.2	3000.2	3000.2	3000.2
2.5°	3010.7	3002.3	2991.9	2998.1	3003.4
5°	3003.4	2999.2	2986.6	2983.5	2994.0
7.5°	2987.7	2977.2	2965.7	2971.0	2966.8
10°	2963.7	2954.3	2939.6	2940.7	2948.0
12.5°	2934.4	2922.9	2907.2	2911.4	2917.7
15°	2895.8	2878.0	2866.5	2867.6	2879.0
17.5°	2846.7	2833.1	2818.5	2821.6	2826.8
20°	2790.2	2782.9	2762.0	2755.8	2761.0
22.5°	2719.2	2705.6	2694.1	2691.0	2692.1
25°	2638.8	2624.1	2610.6	2601.2	2608.5
27.5°	2544.8	2532.2	2514.5	2511.3	2517.6
30°	2438.2	2428.8	2413.1	2409.0	2418.4
32.5°	2329.6	2313.9	2292.0	2292.0	2294.0
35°	2190.6	2187.5	2165.5	2166.6	2168.7
37.5°	2065.3	2050.6	2038.1	2025.6	2031.8
40°	1926.3	1909.6	1892.9	1884.5	1881.4
42.5°	1776.9	1764.4	1757.1	1726.8	1719.5
45°	1629.6	1619.2	1607.7	1568.0	1544.0
47.5°	1479.2	1477.1	1467.7	1397.7	1373.7
50°	1339.2	1336.1	1302.7	1228.5	1204.5
52.5°	1206.6	1185.7	1141.8	1068.7	1064.5
55°	1072.9	1039.4	976.7	928.7	926.6
57.5°	931.8	892.1	828.4	802.3	815.9
60°	819.0	758.4	685.3	688.4	710.4
62.5°	702.0	634.1	562.0	593.4	619.5
65°	603.8	531.7	455.5	517.1	552.6
67.5°	518.1	451.3	378.2	460.7	495.2
70°	447.1	392.8	321.8	408.5	447.1
72.5°	390.7	340.6	285.2	366.7	411.6
75°	338.5	293.5	259.1	322.8	372.9
77.5°	293.5	249.7	234.0	285.2	334.3
80°	246.5	206.8	204.8	248.6	285.2
82.5°	192.2	165.1	165.1	207.9	229.8
85°	135.8	119.1	116.0	151.5	153.6
87.5°	70.0	66.9	60.6	79.4	79.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)