

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: P293642

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293642
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-LD5-64-A-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5866.0 lumens
Efficiency: N/A
Efficacy: 125.4 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

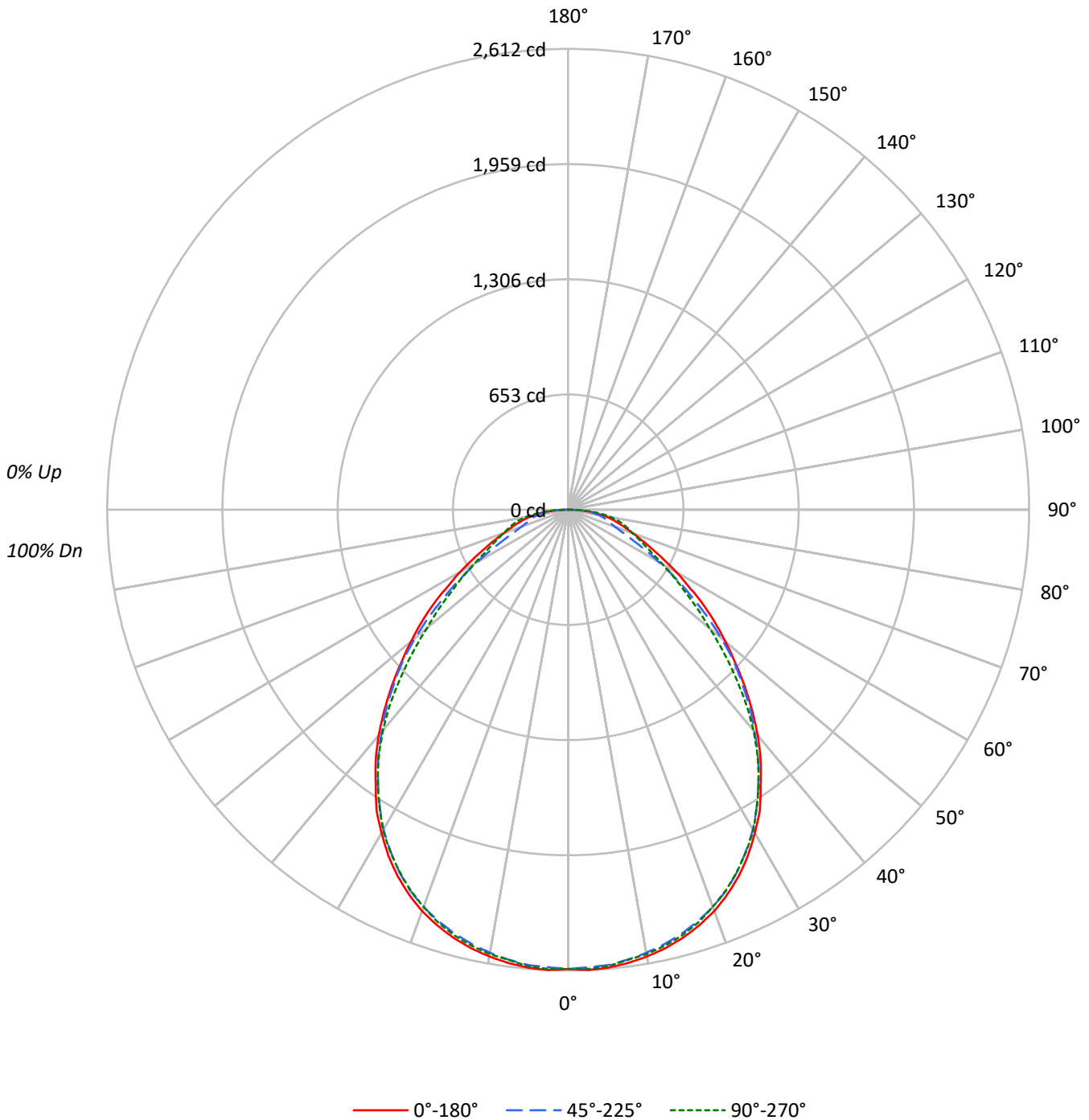
Input Watts (W): 46.779
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3502	3502	3502
5°	3519	3499	3508
10°	3513	3484	3494
15°	3499	3464	3479
20°	3466	3431	3430
25°	3398	3362	3359
30°	3286	3252	3259
35°	3121	3086	3090
40°	2935	2884	2867
45°	2690	2654	2549
50°	2432	2366	2187
55°	2183	1988	1886
60°	1912	1600	1658
65°	1668	1258	1526
70°	1526	1098	1526
75°	1526	1168	1682
80°	1657	1376	1917
85°	1819	1553	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	4.2
10°-20°	703.4	12.0
20°-30°	1043.0	17.8
30°-40°	1176.6	20.1
40°-50°	1065.6	18.2
50°-60°	768.8	13.1
60°-70°	459.0	7.8
70°-80°	283.7	4.8
80°-90°	119.5	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°	1992.8	34.0
0°-40°	3169.3	54.0
0°-60°	5003.8	85.3
0°-90°	5866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2605	2602	2591	2588	2597	248
15°	2512	2497	2487	2488	2498	708
25°	2289	2276	2265	2256	2263	1052
35°	1900	1898	1879	1880	1881	1189
45°	1414	1405	1395	1360	1339	1089
55°	931	902	847	806	804	831
65°	524	461	395	449	479	527
75°	294	255	225	280	324	314
85°	118	103	101	131	133	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2602.7	2602.7	2602.7	2602.7	2602.7
2.5°	2611.7	2604.5	2595.4	2600.9	2605.4
5°	2605.4	2601.8	2590.9	2588.2	2597.2
7.5°	2591.8	2582.7	2572.8	2577.3	2573.7
10°	2571.0	2562.8	2550.1	2551.0	2557.4
12.5°	2545.6	2535.6	2522.0	2525.6	2531.1
15°	2512.1	2496.6	2486.7	2487.6	2497.6
17.5°	2469.5	2457.7	2445.0	2447.7	2452.2
20°	2420.5	2414.2	2396.1	2390.6	2395.2
22.5°	2358.9	2347.1	2337.2	2334.4	2335.3
25°	2289.1	2276.4	2264.7	2256.5	2262.8
27.5°	2207.6	2196.7	2181.3	2178.6	2184.0
30°	2115.1	2107.0	2093.4	2089.8	2097.9
32.5°	2020.9	2007.3	1988.3	1988.3	1990.1
35°	1900.4	1897.6	1878.6	1879.5	1881.3
37.5°	1791.6	1778.9	1768.0	1757.2	1762.6
40°	1671.1	1656.6	1642.1	1634.8	1632.1
42.5°	1541.5	1530.6	1524.3	1498.0	1491.6
45°	1413.7	1404.6	1394.7	1360.2	1339.4
47.5°	1283.2	1281.4	1273.2	1212.5	1191.7
50°	1161.8	1159.1	1130.1	1065.7	1044.9
52.5°	1046.7	1028.6	990.5	927.1	923.4
55°	930.7	901.7	847.3	805.6	803.8
57.5°	808.4	773.9	718.6	696.0	707.8
60°	710.5	657.9	594.5	597.2	616.2
62.5°	609.0	550.1	487.5	514.7	537.4
65°	523.8	461.3	395.1	448.6	479.4
67.5°	449.5	391.5	328.1	399.6	429.6
70°	387.9	340.7	279.1	354.3	387.9
72.5°	338.9	295.4	247.4	318.1	357.1
75°	293.6	254.6	224.7	280.0	323.5
77.5°	254.6	216.6	203.0	247.4	290.0
80°	213.9	179.4	177.6	215.7	247.4
82.5°	166.7	143.2	143.2	180.3	199.4
85°	117.8	103.3	100.6	131.4	133.2
87.5°	60.7	58.0	52.6	68.9	68.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)