

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: P293646

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293646
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6144.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

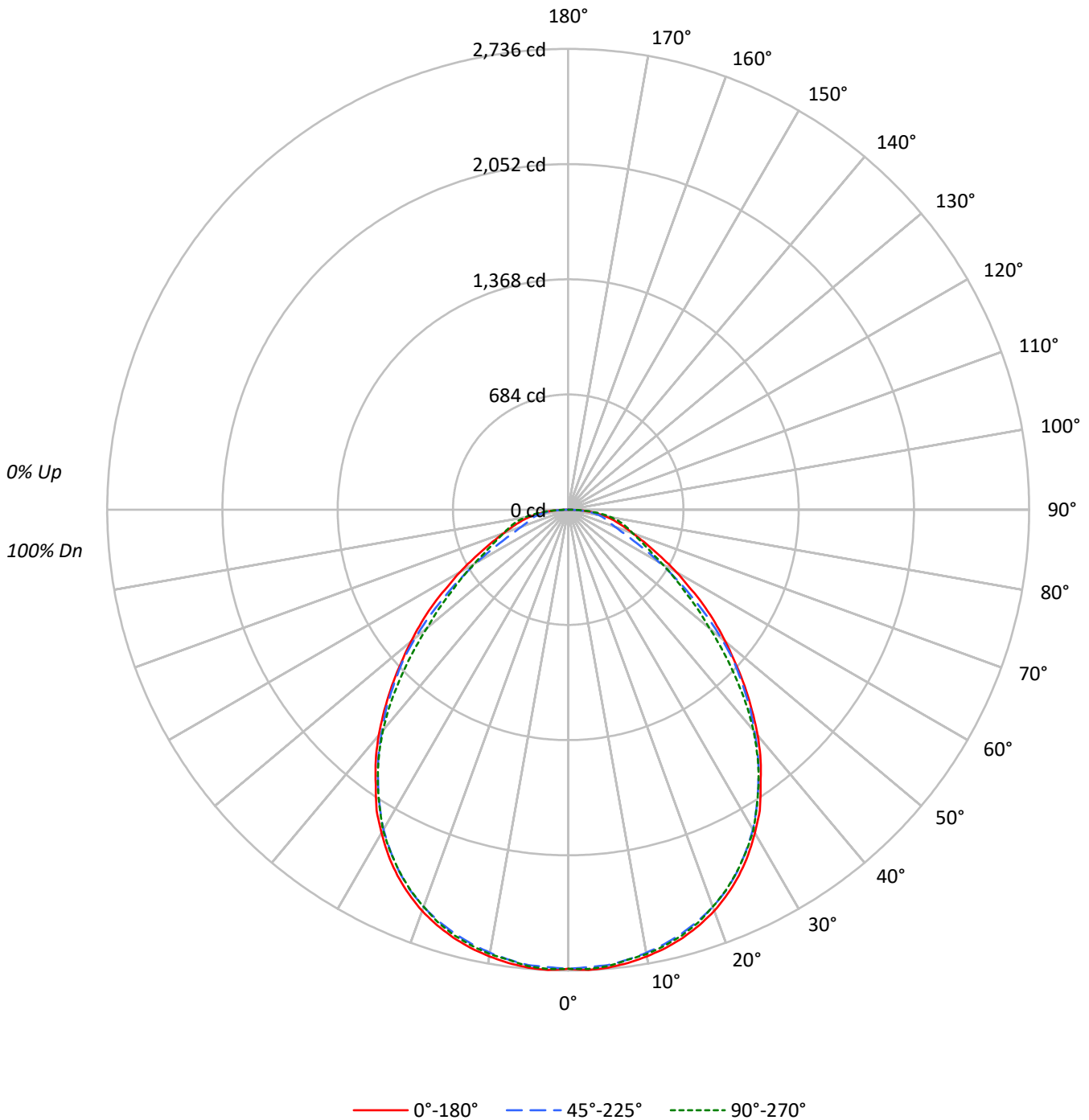
Input Watts (W): 48.081
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3668	3668	3668
5°	3686	3665	3674
10°	3679	3649	3660
15°	3665	3628	3644
20°	3630	3593	3592
25°	3559	3521	3519
30°	3442	3407	3414
35°	3269	3232	3237
40°	3074	3021	3003
45°	2817	2780	2669
50°	2547	2478	2291
55°	2287	2082	1975
60°	2003	1676	1737
65°	1747	1317	1599
70°	1598	1150	1598
75°	1599	1224	1762
80°	1736	1441	2008
85°	1905	1627	2154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	4.2
10°-20°	736.7	12.0
20°-30°	1092.4	17.8
30°-40°	1232.3	20.1
40°-50°	1116.1	18.2
50°-60°	805.2	13.1
60°-70°	480.8	7.8
70°-80°	297.1	4.8
80°-90°	125.2	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°	2087.2	34.0
0°-40°	3319.5	54.0
0°-60°	5240.9	85.3
0°-90°	6144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2729	2725	2714	2711	2720	259
15°	2631	2615	2604	2606	2616	742
25°	2398	2384	2372	2363	2370	1101
35°	1990	1988	1968	1969	1970	1245
45°	1481	1471	1461	1425	1403	1141
55°	975	944	888	844	842	870
65°	549	483	414	470	502	552
75°	308	267	235	293	339	328
85°	123	108	105	138	140	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2726.0	2726.0	2726.0	2726.0	2726.0
2.5°	2735.5	2727.9	2718.4	2724.1	2728.9
5°	2728.9	2725.1	2713.7	2710.8	2720.3
7.5°	2714.6	2705.1	2694.7	2699.4	2695.6
10°	2692.8	2684.3	2671.0	2671.9	2678.6
12.5°	2666.2	2655.8	2641.5	2645.3	2651.0
15°	2631.1	2615.0	2604.5	2605.5	2615.9
17.5°	2586.5	2574.2	2560.9	2563.7	2568.5
20°	2535.2	2528.6	2509.6	2503.9	2508.7
22.5°	2470.7	2458.4	2447.9	2445.1	2446.0
25°	2397.6	2384.3	2372.0	2363.4	2370.1
27.5°	2312.2	2300.8	2284.7	2281.8	2287.5
30°	2215.4	2206.8	2192.6	2188.8	2197.3
32.5°	2116.7	2102.4	2082.5	2082.5	2084.4
35°	1990.4	1987.6	1967.6	1968.6	1970.5
37.5°	1876.5	1863.2	1851.8	1840.4	1846.1
40°	1750.3	1735.1	1719.9	1712.3	1709.5
42.5°	1614.5	1603.2	1596.5	1569.0	1562.3
45°	1480.7	1471.2	1460.8	1424.7	1402.9
47.5°	1344.0	1342.1	1333.6	1270.0	1248.2
50°	1216.8	1214.0	1183.6	1116.2	1094.4
52.5°	1096.3	1077.3	1037.4	971.0	967.2
55°	974.8	944.4	887.5	843.8	841.9
57.5°	846.7	810.6	752.7	729.0	741.3
60°	744.2	689.1	622.7	625.5	645.4
62.5°	637.8	576.1	510.7	539.1	562.9
65°	548.6	483.1	413.8	469.8	502.1
67.5°	470.8	410.0	343.6	418.6	449.9
70°	406.2	356.9	292.3	371.1	406.2
72.5°	355.0	309.4	259.1	333.2	374.0
75°	307.5	266.7	235.4	293.3	338.9
77.5°	266.7	226.9	212.6	259.1	303.7
80°	224.0	187.9	186.0	225.9	259.1
82.5°	174.6	150.0	150.0	188.9	208.8
85°	123.4	108.2	105.4	137.6	139.5
87.5°	63.6	60.7	55.1	72.1	72.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)