

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: P293573

Luminaire Tested: **24GR-LD5-64-A-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293573
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-L93050-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: 6047.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

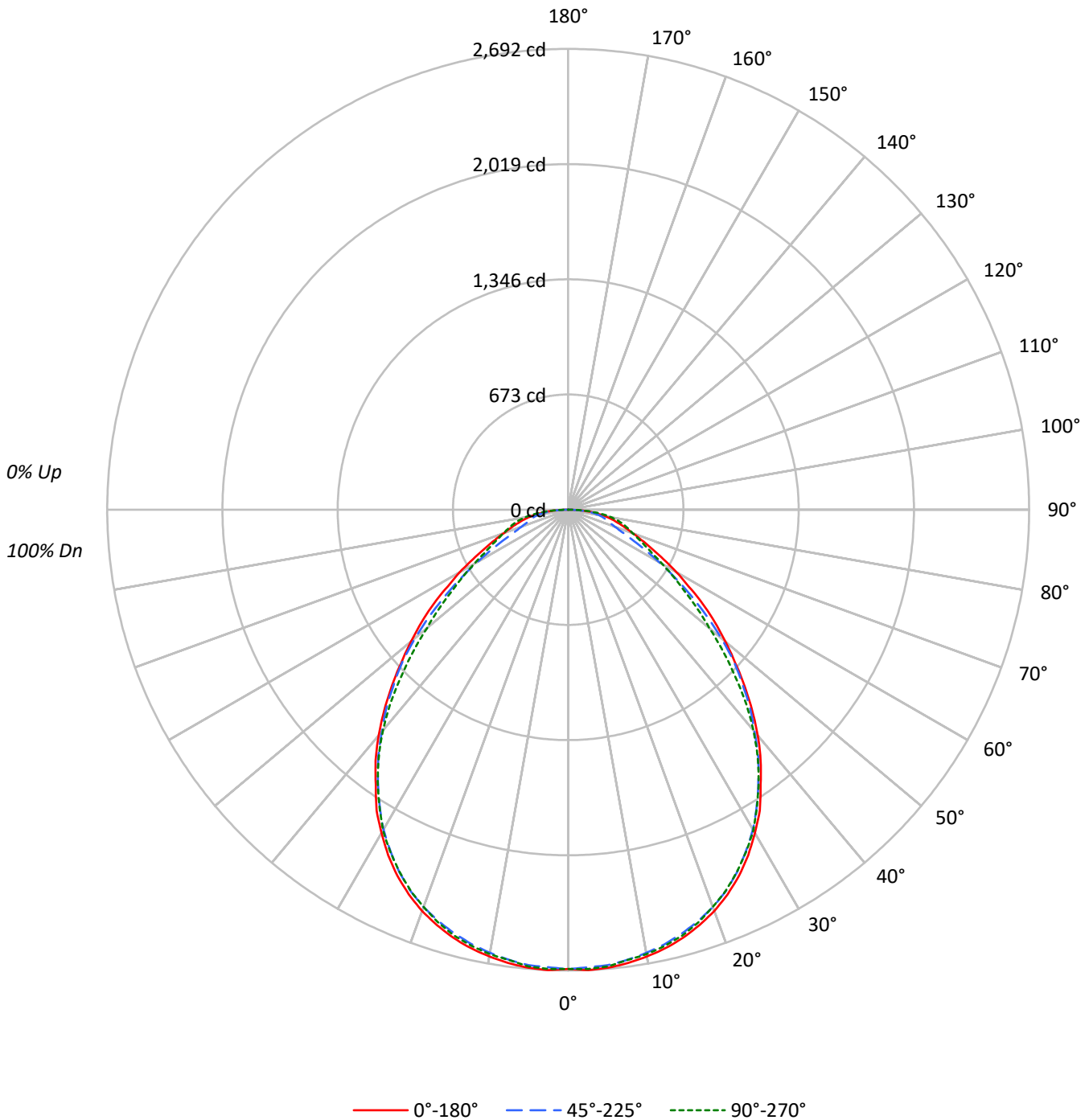
Input Watts (W): 47.871564
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3610	3610	3610
5°	3628	3607	3616
10°	3621	3592	3602
15°	3607	3571	3586
20°	3573	3537	3535
25°	3503	3466	3463
30°	3388	3353	3360
35°	3218	3181	3186
40°	3026	2973	2955
45°	2773	2736	2627
50°	2507	2438	2255
55°	2251	2049	1944
60°	1971	1649	1709
65°	1719	1297	1573
70°	1573	1132	1573
75°	1574	1205	1734
80°	1709	1419	1976
85°	1874	1601	2120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	4.2
10°-20°	725.1	12.0
20°-30°	1075.1	17.8
30°-40°	1212.9	20.1
40°-50°	1098.5	18.2
50°-60°	792.5	13.1
60°-70°	473.2	7.8
70°-80°	292.5	4.8
80°-90°	123.2	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°	2054.3	34.0
0°-40°	3267.1	54.0
0°-60°	5158.1	85.3
0°-90°	6047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2686	2682	2671	2668	2677	255
15°	2590	2574	2563	2564	2575	730
25°	2360	2347	2334	2326	2333	1084
35°	1959	1956	1937	1938	1939	1226
45°	1457	1448	1438	1402	1381	1123
55°	959	930	874	830	829	856
65°	540	476	407	462	494	543
75°	303	262	232	289	334	323
85°	121	106	104	136	137	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2683.0	2683.0	2683.0	2683.0	2683.0
2.5°	2692.3	2684.9	2675.5	2681.1	2685.8
5°	2685.8	2682.0	2670.8	2668.0	2677.4
7.5°	2671.8	2662.4	2652.2	2656.8	2653.1
10°	2650.3	2641.9	2628.8	2629.7	2636.3
12.5°	2624.1	2613.9	2599.8	2603.6	2609.2
15°	2589.6	2573.7	2563.4	2564.3	2574.6
17.5°	2545.7	2533.5	2520.4	2523.2	2527.9
20°	2495.2	2488.7	2470.0	2464.4	2469.1
22.5°	2431.7	2419.5	2409.3	2406.5	2407.4
25°	2359.8	2346.7	2334.5	2326.1	2332.7
27.5°	2275.7	2264.5	2248.6	2245.8	2251.4
30°	2180.4	2172.0	2158.0	2154.2	2162.6
32.5°	2083.2	2069.2	2049.6	2049.6	2051.5
35°	1959.0	1956.2	1936.6	1937.5	1939.4
37.5°	1846.9	1833.8	1822.6	1811.4	1817.0
40°	1722.6	1707.7	1692.7	1685.3	1682.5
42.5°	1589.1	1577.8	1571.3	1544.2	1537.7
45°	1457.3	1448.0	1437.7	1402.2	1380.7
47.5°	1322.8	1320.9	1312.5	1249.9	1228.5
50°	1197.6	1194.8	1164.9	1098.6	1077.1
52.5°	1079.0	1060.3	1021.1	955.7	951.9
55°	959.4	929.5	873.5	830.5	828.6
57.5°	833.3	797.8	740.8	717.5	729.6
60°	732.4	678.2	612.8	615.6	635.2
62.5°	627.8	567.1	502.6	530.6	554.0
65°	540.0	475.5	407.3	462.4	494.2
67.5°	463.4	403.6	338.2	412.0	442.8
70°	399.8	351.3	287.7	365.3	399.8
72.5°	349.4	304.5	255.0	327.9	368.1
75°	302.7	262.5	231.7	288.7	333.5
77.5°	262.5	223.3	209.3	255.0	298.9
80°	220.5	185.0	183.1	222.3	255.0
82.5°	171.9	147.6	147.6	185.9	205.5
85°	121.4	106.5	103.7	135.5	137.3
87.5°	62.6	59.8	54.2	71.0	71.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)