

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: P293695

Luminaire Tested: **24GR-LD5-64-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6058.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

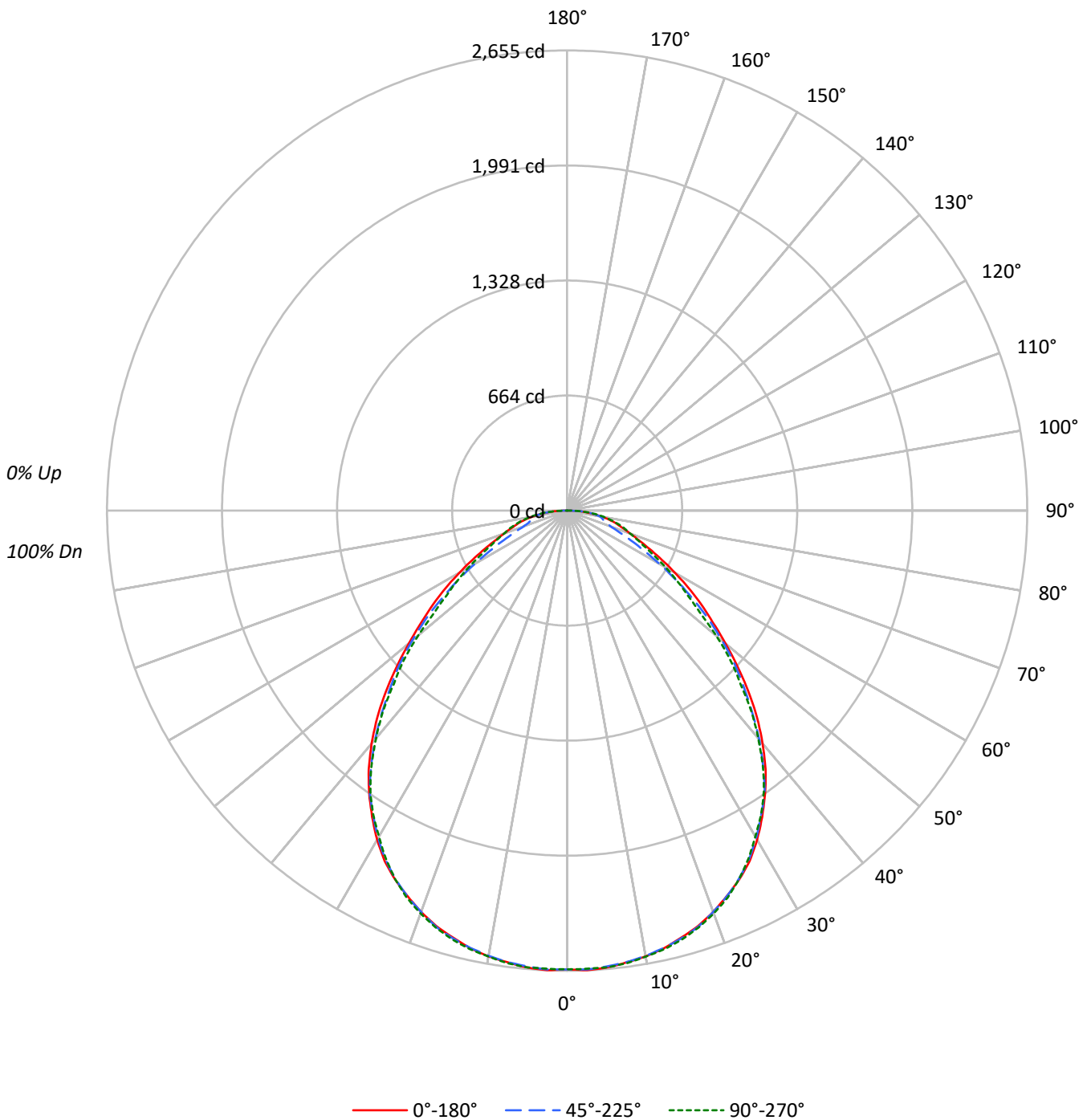
Input Watts (W): 45.849
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	3562	3562	3562
5°	3574	3566	3573
10°	3569	3564	3570
15°	3552	3558	3567
20°	3528	3528	3541
25°	3488	3481	3484
30°	3407	3389	3373
35°	3272	3263	3251
40°	3083	3026	3013
45°	2820	2742	2692
50°	2493	2443	2348
55°	2217	2066	1986
60°	1930	1653	1773
65°	1667	1282	1568
70°	1520	1048	1517
75°	1533	1130	1612
80°	1596	1472	1699
85°	1663	1751	1882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	4.1
10°-20°	720.2	11.9
20°-30°	1078.0	17.8
30°-40°	1231.8	20.3
40°-50°	1113.7	18.4
50°-60°	801.2	13.2
60°-70°	464.5	7.7
70°-80°	275.5	4.5
80°-90°	122.0	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°	2049.3	33.8
0°-40°	3281.1	54.2
0°-60°	5195.9	85.8
0°-90°	6058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2646	2642	2640	2637	2645	251
15°	2550	2554	2554	2552	2561	720
25°	2349	2347	2345	2340	2347	1080
35°	1992	1983	1986	1962	1979	1242
45°	1482	1456	1441	1428	1415	1138
55°	945	927	881	858	847	845
65°	524	465	403	450	492	529
75°	295	247	217	268	310	312
85°	108	116	113	130	122	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2647.1	2647.1	2647.1	2647.1	2647.1
2.5°	2654.7	2645.2	2650.0	2647.1	2646.2
5°	2646.2	2642.4	2640.5	2636.7	2645.2
7.5°	2629.2	2626.3	2627.3	2628.2	2633.9
10°	2612.2	2607.4	2608.4	2610.3	2613.1
12.5°	2585.7	2582.9	2583.8	2585.7	2592.3
15°	2549.8	2554.5	2554.5	2551.7	2561.1
17.5°	2513.9	2512.9	2517.7	2509.2	2522.4
20°	2463.8	2464.7	2463.8	2464.7	2473.2
22.5°	2407.1	2411.8	2409.0	2409.0	2418.4
25°	2349.4	2346.6	2344.7	2340.0	2346.6
27.5°	2280.4	2274.8	2270.1	2260.6	2265.3
30°	2192.6	2193.5	2181.2	2172.7	2170.8
32.5°	2094.3	2094.3	2082.9	2076.3	2082.0
35°	1992.2	1982.8	1986.5	1962.0	1979.0
37.5°	1881.6	1866.5	1858.0	1849.5	1855.2
40°	1755.0	1735.1	1722.9	1705.8	1715.3
42.5°	1621.7	1597.2	1582.0	1569.8	1573.5
45°	1481.9	1456.3	1441.2	1428.0	1414.8
47.5°	1334.4	1318.4	1310.8	1293.8	1278.7
50°	1190.8	1185.1	1167.2	1153.0	1121.8
52.5°	1059.4	1054.7	1026.3	1002.7	963.0
55°	945.1	927.1	880.8	858.1	846.8
57.5°	828.8	799.5	743.8	740.9	748.5
60°	717.3	681.4	614.3	629.4	658.7
62.5°	616.2	562.3	498.1	534.0	568.9
65°	523.6	465.0	402.6	449.9	492.4
67.5°	447.0	388.4	324.2	387.5	436.6
70°	386.5	327.0	266.5	339.3	385.6
72.5°	336.4	282.6	232.5	301.5	349.7
75°	294.9	246.7	217.4	268.4	310.0
77.5°	253.3	214.5	207.9	239.1	264.6
80°	206.0	188.1	190.0	209.8	219.3
82.5°	154.0	155.0	159.7	175.8	172.0
85°	107.7	116.2	113.4	130.4	121.9
87.5°	59.5	65.2	61.4	74.7	67.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)