

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: P219135

Luminaire Tested: **24GR-LD5-64-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6050.2 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

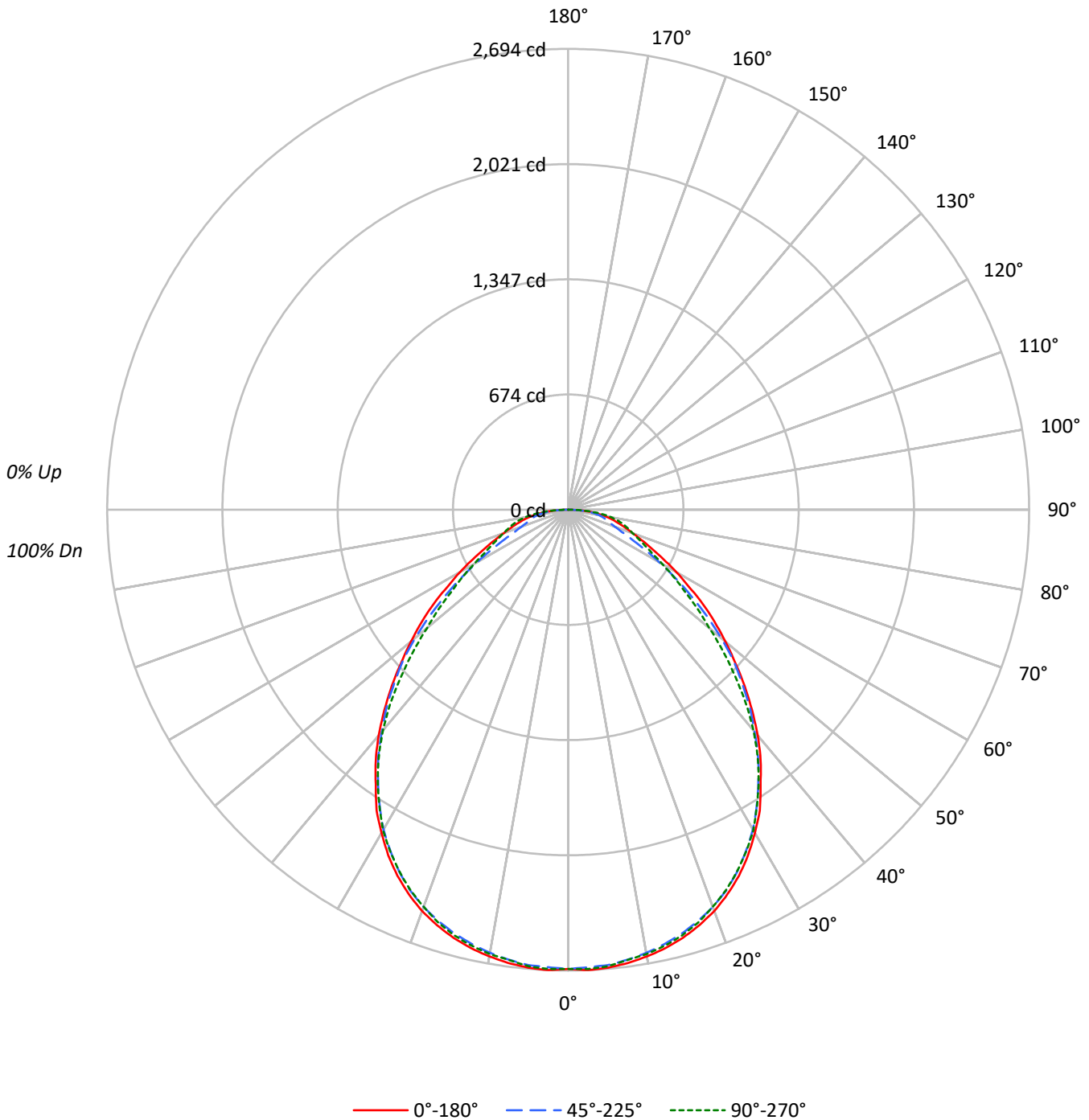
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219135

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219135

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L950-CD1-U

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°	4111	4111	4111
5°	4132	4108	4119
10°	4124	4091	4102
15°	4108	4067	4084
20°	4069	4028	4027
25°	3990	3947	3944
30°	3858	3819	3827
35°	3665	3623	3628
40°	3446	3386	3366
45°	3158	3116	2992
50°	2855	2777	2568
55°	2563	2334	2214
60°	2245	1878	1947
65°	1958	1477	1792
70°	1791	1289	1791
75°	1792	1372	1975
80°	1946	1616	2251
85°	2135	1822	2415



TEST NUMBER: P219135

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	4.2
10°-20°	725.4	12.0
20°-30°	1075.7	17.8
30°-40°	1213.5	20.1
40°-50°	1099.1	18.2
50°-60°	792.9	13.1
60°-70°	473.4	7.8
70°-80°	292.6	4.8
80°-90°	123.3	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°	2055.3	34.0
0°-40°	3268.8	54.0
0°-60°	5160.8	85.3
0°-90°	6050.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6050.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2684	2684	2684	2684	2684	
5°	2687	2684	2672	2670	2679	255
15°	2591	2575	2565	2566	2576	730
25°	2361	2348	2336	2327	2334	1085
35°	1960	1957	1938	1938	1940	1226
45°	1458	1449	1438	1403	1382	1124
55°	960	930	874	831	829	857
65°	540	476	408	463	494	543
75°	303	263	232	289	334	323
85°	122	107	104	136	137	127
90°	0	0	0	0	0	



TEST NUMBER: P219135

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2684.4	2684.4	2684.4	2684.4	2684.4
2.5°	2693.8	2686.2	2676.9	2682.5	2687.2
5°	2687.2	2683.5	2672.2	2669.5	2678.8
7.5°	2673.2	2663.8	2653.6	2658.2	2654.5
10°	2651.6	2643.3	2630.2	2631.1	2637.6
12.5°	2625.5	2615.2	2601.2	2605.0	2610.5
15°	2591.0	2575.0	2564.7	2565.7	2575.9
17.5°	2547.0	2534.8	2521.8	2524.6	2529.3
20°	2496.5	2489.9	2471.3	2465.6	2470.4
22.5°	2433.0	2420.8	2410.5	2407.8	2408.7
25°	2361.0	2347.9	2335.8	2327.3	2333.9
27.5°	2276.9	2265.6	2249.8	2247.0	2252.6
30°	2181.5	2173.2	2159.1	2155.3	2163.8
32.5°	2084.4	2070.3	2050.7	2050.7	2052.6
35°	1960.0	1957.2	1937.6	1938.5	1940.4
37.5°	1847.8	1834.7	1823.5	1812.4	1817.9
40°	1723.5	1708.6	1693.6	1686.1	1683.3
42.5°	1589.9	1578.7	1572.1	1545.0	1538.4
45°	1458.1	1448.7	1438.4	1402.9	1381.5
47.5°	1323.5	1321.6	1313.2	1250.6	1229.1
50°	1198.3	1195.5	1165.5	1099.2	1077.7
52.5°	1079.5	1060.9	1021.6	956.1	952.4
55°	960.0	930.0	874.0	830.9	829.1
57.5°	833.7	798.3	741.2	717.8	730.0
60°	732.8	678.6	613.2	616.0	635.5
62.5°	628.1	567.4	502.9	530.9	554.3
65°	540.3	475.7	407.5	462.6	494.4
67.5°	463.6	403.8	338.3	412.2	443.1
70°	400.0	351.4	287.9	365.5	400.0
72.5°	349.5	304.7	255.2	328.1	368.3
75°	302.8	262.6	231.8	288.8	333.7
77.5°	262.6	223.4	209.4	255.2	299.1
80°	220.6	185.1	183.2	222.5	255.2
82.5°	172.0	147.7	147.7	186.0	205.7
85°	121.5	106.6	103.7	135.5	137.4
87.5°	62.6	59.8	54.2	71.1	71.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)