

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: P214460

Luminaire Tested: **24GR6440D**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P214460
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: 24GR6440D
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: (168) 4000K CCT, 85 CRI LEDs
Ballast/Driver: -

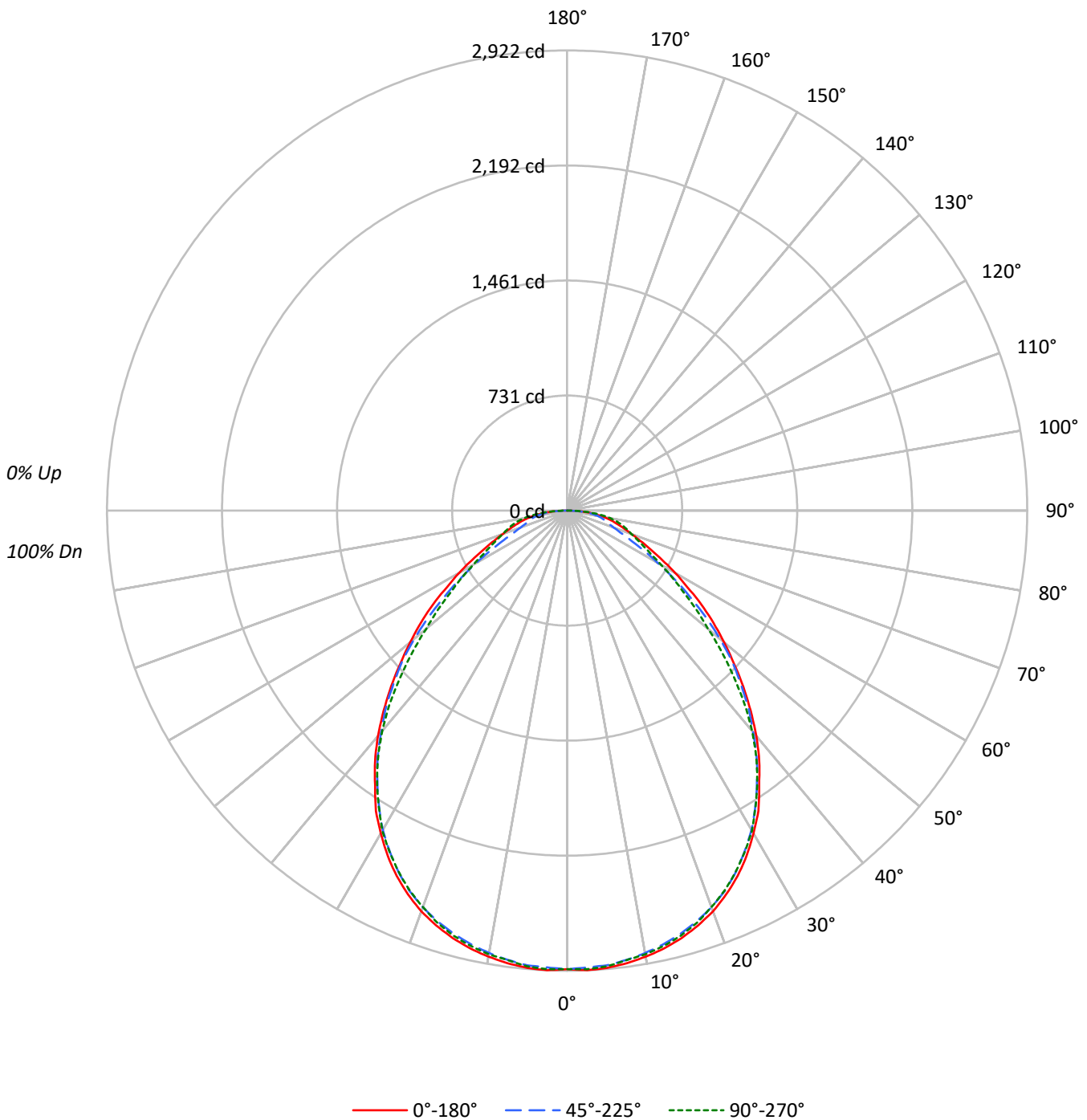
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6562.0 lumens
Efficiency: N/A
Efficacy: 129.4 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): 50.7
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°	4459	4459	4459
5°	4481	4456	4467
10°	4473	4437	4449
15°	4456	4411	4430
20°	4413	4369	4367
25°	4327	4281	4278
30°	4185	4142	4150
35°	3975	3929	3935
40°	3738	3673	3650
45°	3426	3379	3245
50°	3097	3012	2785
55°	2780	2531	2401
60°	2435	2037	2112
65°	2123	1602	1944
70°	1943	1398	1943
75°	1944	1488	2142
80°	2110	1753	2441
85°	2316	1977	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	4.2
10°-20°	786.8	12.0
20°-30°	1166.7	17.8
30°-40°	1316.2	20.1
40°-50°	1192.1	18.2
50°-60°	860.0	13.1
60°-70°	513.5	7.8
70°-80°	317.4	4.8
80°-90°	133.7	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°	2229.2	34.0
0°-40°	3545.4	54.0
0°-60°	5597.5	85.3
0°-90°	6562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2912	2912	2912	2912	2912	
5°	2914	2910	2898	2895	2905	277
15°	2810	2793	2782	2783	2794	792
25°	2561	2546	2533	2524	2531	1176
35°	2126	2123	2102	2102	2105	1330
45°	1582	1571	1560	1522	1498	1219
55°	1041	1009	948	901	899	929
65°	586	516	442	502	536	589
75°	328	285	251	313	362	351
85°	132	116	112	147	149	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.5	2911.5	2911.5	2911.5	2911.5
2.5°	2921.6	2913.5	2903.4	2909.5	2914.5
5°	2914.5	2910.5	2898.3	2895.3	2905.4
7.5°	2899.3	2889.2	2878.0	2883.1	2879.1
10°	2876.0	2866.9	2852.7	2853.7	2860.8
12.5°	2847.6	2836.5	2821.3	2825.3	2831.4
15°	2810.1	2792.9	2781.7	2782.8	2793.9
17.5°	2762.5	2749.3	2735.1	2738.1	2743.2
20°	2707.7	2700.6	2680.4	2674.3	2679.3
22.5°	2638.8	2625.6	2614.5	2611.4	2612.4
25°	2560.7	2546.5	2533.4	2524.2	2531.3
27.5°	2469.5	2457.3	2440.1	2437.1	2443.1
30°	2366.1	2357.0	2341.8	2337.7	2346.8
32.5°	2260.7	2245.5	2224.2	2224.2	2226.2
35°	2125.8	2122.8	2101.5	2102.5	2104.6
37.5°	2004.2	1990.0	1977.8	1965.7	1971.7
40°	1869.4	1853.1	1836.9	1828.8	1825.8
42.5°	1724.4	1712.2	1705.1	1675.7	1668.6
45°	1581.5	1571.3	1560.2	1521.6	1498.3
47.5°	1435.5	1433.4	1424.3	1356.4	1333.1
50°	1299.6	1296.6	1264.1	1192.2	1168.9
52.5°	1170.9	1150.6	1108.0	1037.1	1033.0
55°	1041.1	1008.7	947.9	901.2	899.2
57.5°	904.3	865.7	803.9	778.6	791.7
60°	794.8	736.0	665.0	668.1	689.4
62.5°	681.2	615.3	545.4	575.8	601.2
65°	585.9	516.0	442.0	501.8	536.3
67.5°	502.8	437.9	367.0	447.1	480.5
70°	433.9	381.2	312.2	396.4	433.9
72.5°	379.1	330.5	276.8	355.8	399.4
75°	328.5	284.9	251.4	313.2	361.9
77.5°	284.9	242.3	227.1	276.8	324.4
80°	239.2	200.7	198.7	241.3	276.8
82.5°	186.5	160.2	160.2	201.7	223.0
85°	131.8	115.6	112.5	147.0	149.0
87.5°	67.9	64.9	58.8	77.0	77.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)