

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: P219091

Luminaire Tested: **24GR-LD5-72-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219091
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-LD5-72-A-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5918.4 lumens
Efficiency: N/A
Efficacy: 105.6 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

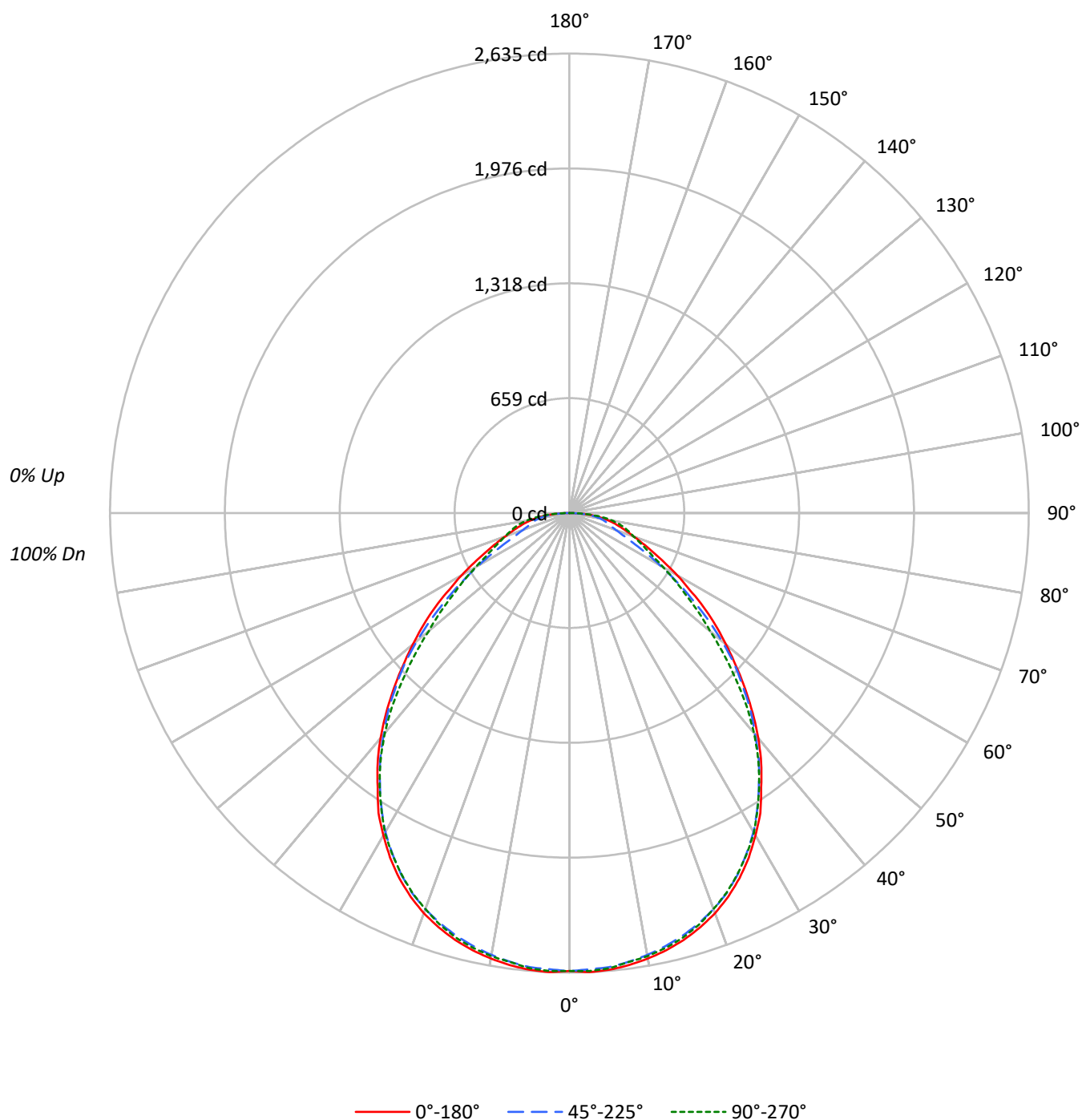
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4022	4022	4022
5°	4042	4019	4029
10°	4034	4002	4013
15°	4019	3978	3996
20°	3981	3940	3939
25°	3903	3861	3858
30°	3774	3735	3744
35°	3585	3544	3549
40°	3371	3312	3292
45°	3090	3048	2927
50°	2793	2717	2512
55°	2507	2283	2166
60°	2196	1837	1904
65°	1915	1445	1753
70°	1752	1261	1752
75°	1753	1342	1932
80°	1903	1581	2202
85°	2089	1784	2362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	4.2
10°-20°	709.7	12.0
20°-30°	1052.3	17.8
30°-40°	1187.1	20.1
40°-50°	1075.1	18.2
50°-60°	775.7	13.1
60°-70°	463.1	7.8
70°-80°	286.2	4.8
80°-90°	120.6	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°	2010.6	34.0
0°-40°	3197.7	54.0
0°-60°	5048.5	85.3
0°-90°	5918.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5918.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2626	2626	2626	2626	2626	
5°	2629	2625	2614	2611	2620	250
15°	2534	2519	2509	2510	2520	714
25°	2310	2297	2285	2277	2283	1061
35°	1917	1915	1895	1896	1898	1200
45°	1426	1417	1407	1372	1351	1099
55°	939	910	855	813	811	838
65°	528	465	399	453	484	532
75°	296	257	227	282	326	316
85°	119	104	102	133	134	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2626.0	2626.0	2626.0	2626.0	2626.0
2.5°	2635.1	2627.8	2618.7	2624.1	2628.7
5°	2628.7	2625.1	2614.1	2611.3	2620.5
7.5°	2615.0	2605.8	2595.8	2600.4	2596.7
10°	2594.0	2585.7	2572.9	2573.8	2580.2
12.5°	2568.3	2558.3	2544.5	2548.2	2553.7
15°	2534.5	2519.0	2509.0	2509.9	2519.9
17.5°	2491.6	2479.7	2466.9	2469.6	2474.2
20°	2442.2	2435.8	2417.4	2412.0	2416.5
22.5°	2380.0	2368.1	2358.1	2355.3	2356.2
25°	2309.6	2296.8	2284.9	2276.6	2283.0
27.5°	2227.3	2216.3	2200.8	2198.0	2203.5
30°	2134.0	2125.8	2112.1	2108.5	2116.7
32.5°	2038.9	2025.2	2006.0	2006.0	2007.9
35°	1917.3	1914.6	1895.4	1896.3	1898.1
37.5°	1807.6	1794.8	1783.8	1772.9	1778.3
40°	1686.0	1671.4	1656.7	1649.4	1646.7
42.5°	1555.3	1544.3	1537.9	1511.4	1504.9
45°	1426.4	1417.2	1407.1	1372.4	1351.4
47.5°	1294.7	1292.9	1284.6	1223.4	1202.4
50°	1172.2	1169.4	1140.1	1075.3	1054.2
52.5°	1056.1	1037.8	999.3	935.4	931.7
55°	939.0	909.8	854.9	812.9	811.0
57.5°	815.6	780.8	725.0	702.2	714.1
60°	716.8	663.8	599.8	602.5	621.7
62.5°	614.4	555.0	491.9	519.3	542.2
65°	528.5	465.4	398.7	452.6	483.7
67.5°	453.5	395.0	331.0	403.2	433.4
70°	391.3	343.8	281.6	357.5	391.3
72.5°	341.9	298.1	249.6	320.9	360.2
75°	296.3	256.9	226.7	282.5	326.4
77.5°	256.9	218.5	204.8	249.6	292.6
80°	215.7	181.1	179.2	217.6	249.6
82.5°	168.3	144.5	144.5	182.0	201.1
85°	118.9	104.2	101.5	132.6	134.4
87.5°	61.3	58.5	53.1	69.5	69.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)