

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: P219030

Luminaire Tested: **24GR-LD5-64-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5209.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

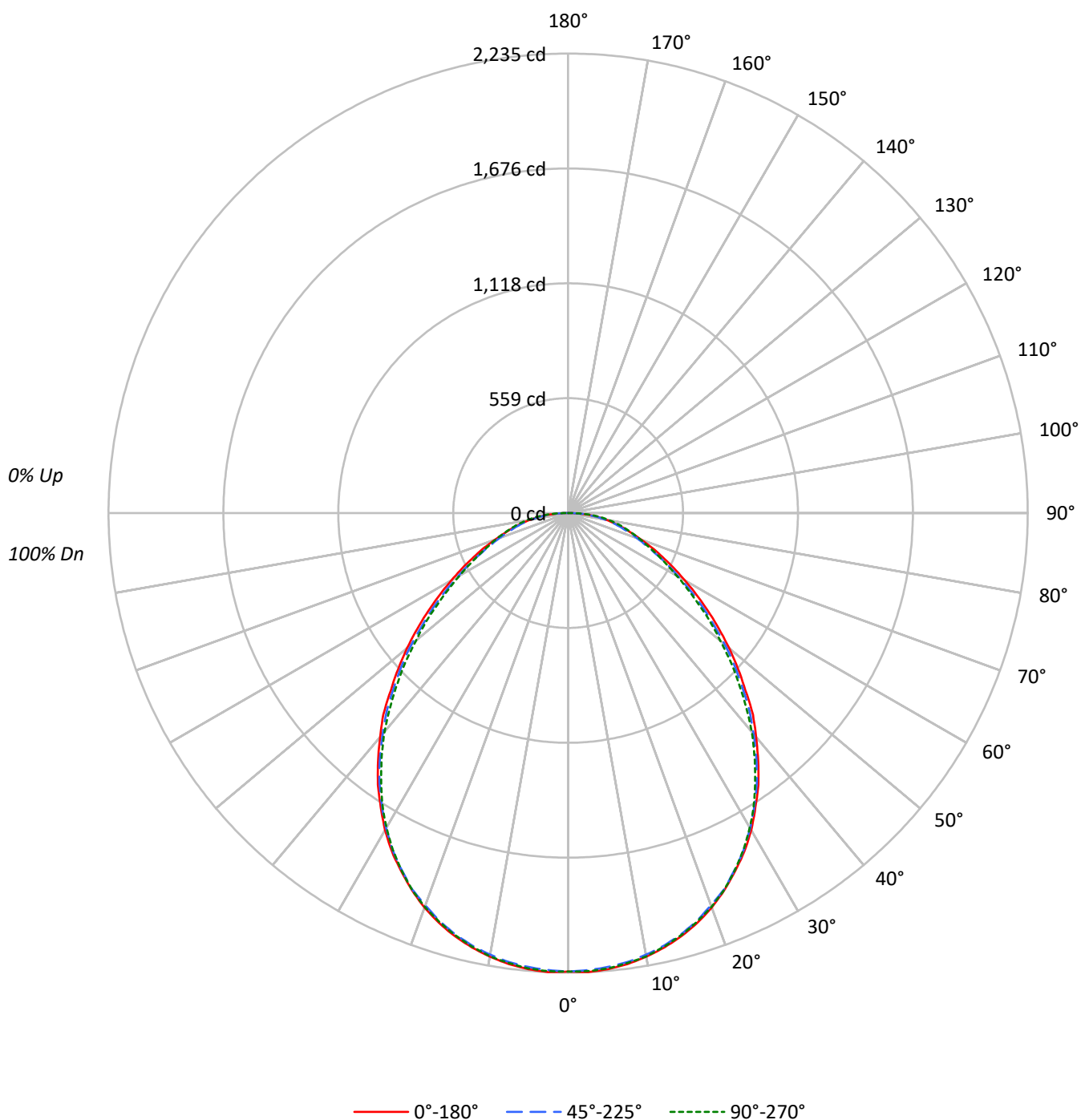
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37		
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33		
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3416	3416	3416
5°	3424	3408	3418
10°	3408	3392	3405
15°	3379	3363	3371
20°	3329	3309	3322
25°	3248	3237	3240
30°	3149	3131	3125
35°	3015	2991	2964
40°	2842	2805	2778
45°	2641	2594	2545
50°	2434	2371	2300
55°	2213	2136	2069
60°	2005	1899	1865
65°	1833	1711	1723
70°	1686	1590	1665
75°	1640	1554	1697
80°	1643	1601	1806
85°	1807	1708	1989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	4.0
10°-20°	598.0	11.5
20°-30°	881.2	16.9
30°-40°	996.6	19.1
40°-50°	924.4	17.7
50°-60°	718.1	13.8
60°-70°	481.6	9.2
70°-80°	288.6	5.5
80°-90°	109.8	2.1
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°	1690.0	32.4
0°-40°	2686.5	51.6
0°-60°	4329.1	83.1
0°-90°	5209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2227	2221	2217	2215	2223	211
15°	2131	2122	2121	2117	2126	600
25°	1922	1920	1915	1912	1917	885
35°	1613	1606	1600	1590	1585	1005
45°	1219	1214	1197	1179	1175	943
55°	829	819	800	780	775	744
65°	506	490	472	471	475	505
75°	277	267	263	275	287	293
85°	103	96	97	114	113	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.2	2230.2	2230.2	2230.2	2230.2
2.5°	2235.1	2227.9	2224.7	2223.0	2230.2
5°	2227.0	2220.6	2216.6	2215.0	2223.0
7.5°	2212.6	2205.4	2202.9	2199.7	2207.8
10°	2191.0	2184.5	2181.3	2178.9	2189.3
12.5°	2163.7	2158.0	2154.8	2153.2	2159.6
15°	2130.7	2121.8	2121.0	2117.0	2125.8
17.5°	2089.7	2081.7	2080.1	2078.5	2084.1
20°	2042.4	2034.3	2030.3	2029.5	2038.4
22.5°	1985.3	1979.7	1981.3	1976.4	1982.9
25°	1921.8	1919.5	1915.4	1912.2	1917.1
27.5°	1856.0	1848.0	1848.0	1841.6	1846.4
30°	1780.5	1774.9	1770.1	1763.7	1766.9
32.5°	1695.4	1693.0	1685.8	1679.4	1680.9
35°	1612.7	1606.2	1599.8	1590.1	1585.4
37.5°	1517.9	1511.5	1503.5	1489.8	1488.2
40°	1421.6	1415.9	1403.0	1388.6	1389.4
42.5°	1330.0	1321.1	1305.1	1285.8	1281.8
45°	1219.2	1214.3	1197.4	1179.0	1175.0
47.5°	1120.4	1117.2	1096.3	1077.0	1072.1
50°	1021.6	1012.7	995.1	975.8	965.4
52.5°	924.4	913.2	890.7	877.8	873.0
55°	828.9	819.2	799.9	779.8	775.0
57.5°	739.6	729.2	705.9	691.5	689.0
60°	654.5	644.9	620.0	609.6	608.8
62.5°	579.1	563.0	546.1	538.9	539.7
65°	505.9	489.9	472.2	470.6	475.4
67.5°	441.7	424.8	407.2	413.6	418.4
70°	376.6	364.7	355.0	365.4	371.9
72.5°	321.3	314.1	305.2	319.6	327.7
75°	277.1	267.4	262.6	275.4	286.8
77.5°	229.7	221.6	221.6	235.3	247.4
80°	186.3	180.7	181.5	197.5	204.8
82.5°	146.2	138.2	138.9	159.0	163.8
85°	102.8	96.4	97.2	114.1	113.2
87.5°	53.8	51.4	53.8	65.8	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)