

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: P219240

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219240
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-A19/156-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5500.4 lumens
Efficiency: N/A
Efficacy: 114.2 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

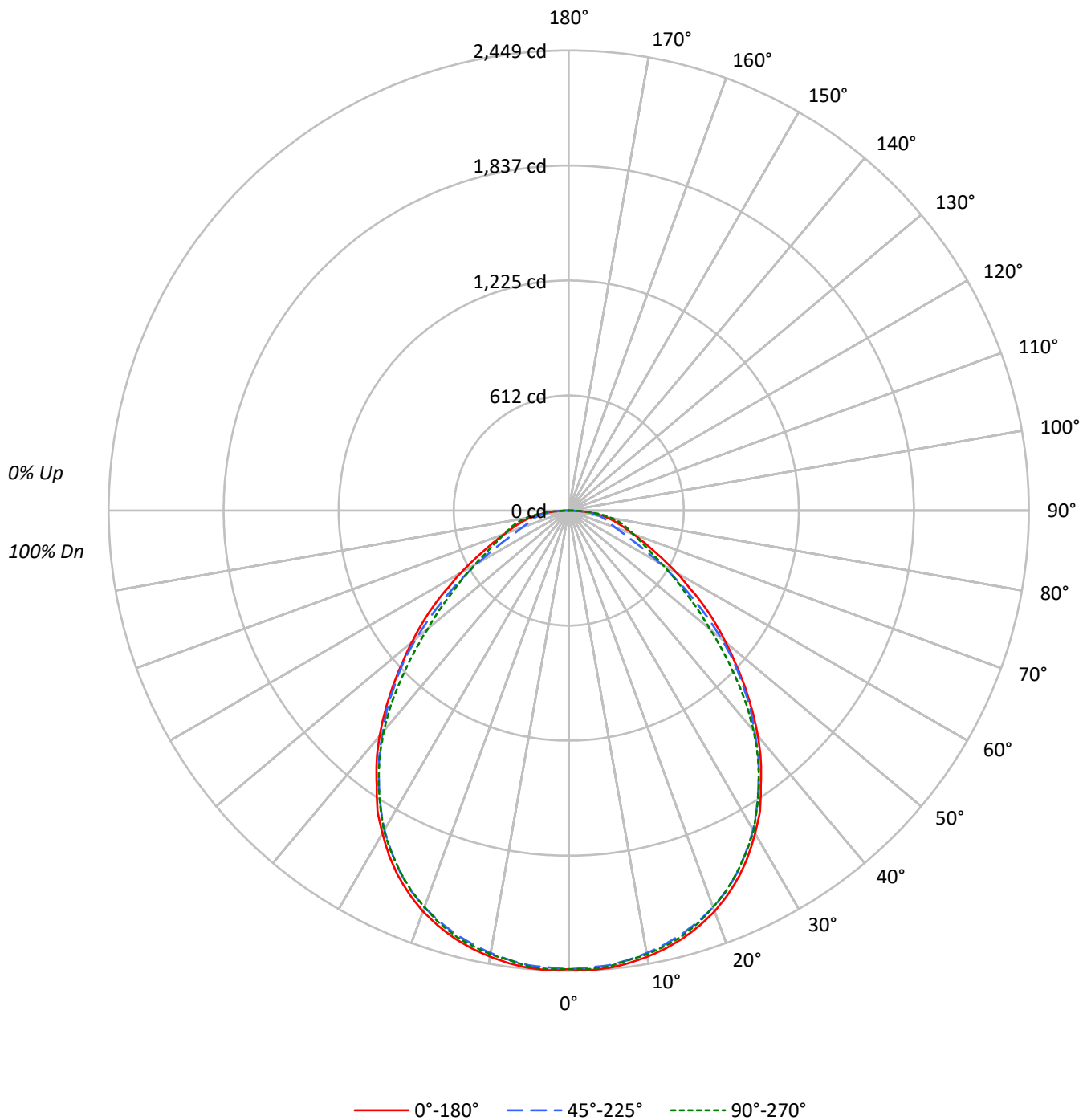
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	3738	3738	3738
5°	3756	3735	3744
10°	3749	3719	3729
15°	3735	3697	3714
20°	3699	3662	3661
25°	3628	3589	3586
30°	3508	3472	3479
35°	3332	3294	3298
40°	3133	3078	3060
45°	2871	2833	2720
50°	2596	2525	2335
55°	2330	2122	2013
60°	2041	1708	1770
65°	1780	1343	1629
70°	1629	1172	1629
75°	1629	1247	1795
80°	1769	1469	2045
85°	1942	1657	2195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	4.2
10°-20°	659.5	12.0
20°-30°	978.0	17.8
30°-40°	1103.2	20.1
40°-50°	999.2	18.2
50°-60°	720.9	13.1
60°-70°	430.4	7.8
70°-80°	266.0	4.8
80°-90°	112.1	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°	1868.6	34.0
0°-40°	2971.8	54.0
0°-60°	4692.0	85.3
0°-90°	5500.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5500.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2440	2440	2440	2440	2440	
5°	2443	2440	2429	2427	2435	232
15°	2356	2341	2332	2333	2342	664
25°	2146	2135	2124	2116	2122	986
35°	1782	1779	1762	1762	1764	1115
45°	1326	1317	1308	1276	1256	1022
55°	873	846	795	755	754	779
65°	491	432	370	421	450	494
75°	275	239	211	263	303	294
85°	110	97	94	123	125	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2440.5	2440.5	2440.5	2440.5	2440.5
2.5°	2449.0	2442.2	2433.7	2438.8	2443.0
5°	2443.0	2439.6	2429.4	2426.9	2435.4
7.5°	2430.3	2421.8	2412.5	2416.7	2413.3
10°	2410.8	2403.1	2391.2	2392.1	2398.0
12.5°	2386.9	2377.6	2364.8	2368.3	2373.3
15°	2355.5	2341.1	2331.7	2332.6	2342.0
17.5°	2315.6	2304.5	2292.7	2295.2	2299.5
20°	2269.7	2263.8	2246.8	2241.7	2245.9
22.5°	2211.9	2200.8	2191.5	2189.0	2189.8
25°	2146.5	2134.6	2123.5	2115.9	2121.8
27.5°	2070.0	2059.8	2045.3	2042.8	2047.9
30°	1983.3	1975.7	1963.0	1959.5	1967.2
32.5°	1894.9	1882.2	1864.4	1864.4	1866.0
35°	1781.9	1779.4	1761.5	1762.4	1764.1
37.5°	1679.9	1668.1	1657.9	1647.7	1652.7
40°	1566.9	1553.3	1539.7	1533.0	1530.4
42.5°	1445.4	1435.3	1429.3	1404.6	1398.7
45°	1325.6	1317.1	1307.8	1275.5	1255.9
47.5°	1203.2	1201.6	1193.9	1137.0	1117.4
50°	1089.4	1086.9	1059.6	999.3	979.8
52.5°	981.4	964.5	928.8	869.3	865.9
55°	872.7	845.5	794.6	755.4	753.7
57.5°	758.0	725.7	673.9	652.6	663.7
60°	666.2	616.9	557.5	559.9	577.8
62.5°	571.0	515.8	457.2	482.6	503.9
65°	491.1	432.5	370.5	420.6	449.5
67.5°	421.5	367.1	307.6	374.7	402.8
70°	363.7	319.5	261.7	332.2	363.7
72.5°	317.8	277.0	231.9	298.2	334.8
75°	275.3	238.8	210.7	262.6	303.3
77.5°	238.8	203.1	190.3	231.9	271.9
80°	200.6	168.2	166.6	202.3	231.9
82.5°	156.3	134.2	134.2	169.1	187.0
85°	110.5	96.8	94.3	123.2	124.9
87.5°	56.9	54.4	49.3	64.6	64.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)