

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: P219226

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219226
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-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6003.6 lumens
Efficiency: N/A
Efficacy: 107.1 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

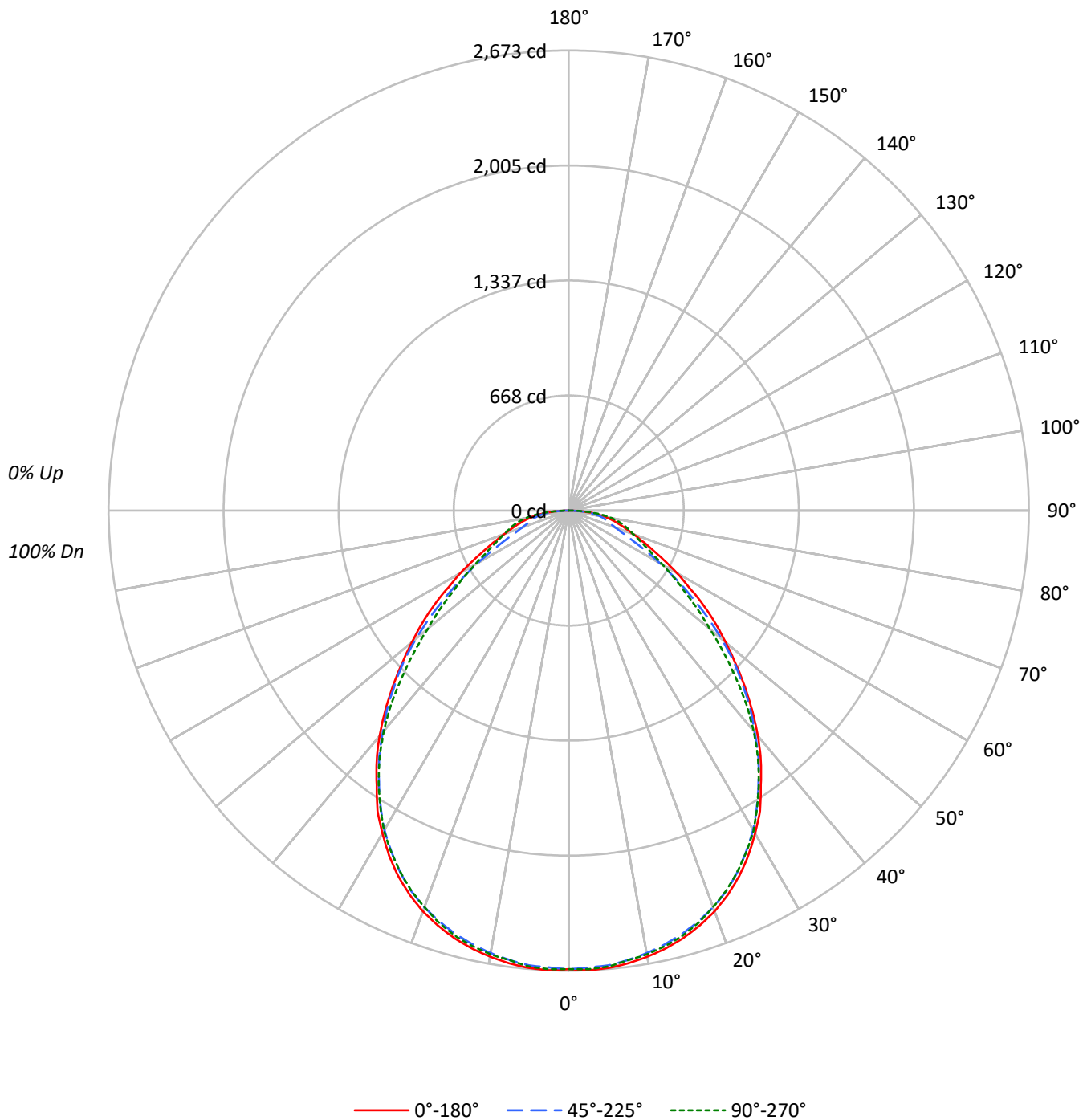
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	110	105	101	98	107	103	99	96		99	96	93			95	93	90			86
2	101	93	87	82	98	91	86	81		88	83	79			85	81	77			73
3	93	83	75	69	90	81	74	69		79	73	68			76	71	67			63
4	86	74	66	60	83	73	65	60		71	64	59			68	63	58			55
5	79	67	59	53	77	66	58	52		64	57	52			62	56	51			49
6	73	61	53	46	72	60	52	46		58	51	46			57	50	45			43
7	68	56	47	42	67	55	47	41		53	46	41			52	46	41			39
8	64	51	43	37	62	50	43	37		49	42	37			48	41	37			35
9	60	47	39	34	58	46	39	34		45	38	34			44	38	33			32
10	56	44	36	31	55	43	36	31		42	35	31			41	35	31			29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4080	4080	4080
5°	4100	4077	4087
10°	4092	4059	4071
15°	4077	4035	4053
20°	4038	3997	3995
25°	3959	3917	3914
30°	3828	3789	3797
35°	3637	3595	3600
40°	3420	3360	3340
45°	3134	3092	2969
50°	2833	2756	2548
55°	2543	2316	2197
60°	2228	1864	1932
65°	1943	1465	1778
70°	1778	1279	1778
75°	1778	1361	1959
80°	1931	1604	2233
85°	2118	1808	2395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	4.2
10°-20°	719.9	12.0
20°-30°	1067.4	17.8
30°-40°	1204.2	20.1
40°-50°	1090.6	18.2
50°-60°	786.8	13.1
60°-70°	469.8	7.8
70°-80°	290.4	4.8
80°-90°	122.3	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°	2039.5	34.0
0°-40°	3243.7	54.0
0°-60°	5121.1	85.3
0°-90°	6003.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6003.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2666	2663	2652	2649	2658	253
15°	2571	2555	2545	2546	2556	725
25°	2343	2330	2318	2309	2316	1076
35°	1945	1942	1923	1924	1925	1217
45°	1447	1438	1427	1392	1371	1115
55°	952	923	867	824	823	850
65°	536	472	404	459	491	539
75°	300	261	230	287	331	321
85°	120	106	103	134	136	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2663.7	2663.7	2663.7	2663.7	2663.7
2.5°	2673.0	2665.6	2656.3	2661.9	2666.5
5°	2666.5	2662.8	2651.7	2648.9	2658.1
7.5°	2652.6	2643.3	2633.1	2637.7	2634.1
10°	2631.3	2622.9	2609.9	2610.9	2617.3
12.5°	2605.2	2595.0	2581.2	2584.8	2590.5
15°	2571.0	2555.2	2545.0	2545.9	2556.1
17.5°	2527.4	2515.3	2502.3	2505.1	2509.8
20°	2477.3	2470.8	2452.2	2446.7	2451.3
22.5°	2414.3	2402.2	2392.0	2389.2	2390.1
25°	2342.9	2329.8	2317.8	2309.4	2315.9
27.5°	2259.3	2248.2	2232.4	2229.6	2235.2
30°	2164.7	2156.4	2142.5	2138.8	2147.1
32.5°	2068.3	2054.4	2034.9	2034.9	2036.8
35°	1944.9	1942.2	1922.7	1923.6	1925.4
37.5°	1833.6	1820.6	1809.5	1798.3	1804.0
40°	1710.3	1695.4	1680.6	1673.1	1670.4
42.5°	1577.7	1566.6	1560.0	1533.1	1526.6
45°	1446.9	1437.6	1427.4	1392.1	1370.8
47.5°	1313.3	1311.5	1303.1	1241.0	1219.7
50°	1189.1	1186.3	1156.6	1090.7	1069.4
52.5°	1071.3	1052.7	1013.7	948.8	945.1
55°	952.5	922.8	867.2	824.5	822.7
57.5°	827.3	792.0	735.5	712.3	724.4
60°	727.2	673.4	608.4	611.2	630.7
62.5°	623.3	563.0	499.0	526.8	550.0
65°	536.1	472.1	404.3	459.1	490.6
67.5°	460.0	400.7	335.8	409.0	439.6
70°	397.0	348.8	285.7	362.6	397.0
72.5°	346.9	302.3	253.2	325.6	365.4
75°	300.5	260.6	230.0	286.6	331.1
77.5°	260.6	221.7	207.7	253.2	296.8
80°	218.9	183.6	181.8	220.7	253.2
82.5°	170.7	146.5	146.5	184.5	204.1
85°	120.5	105.7	102.9	134.5	136.3
87.5°	62.1	59.3	53.8	70.5	70.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)