

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: P219208

Luminaire Tested: **24GR-LD5-48-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219208
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-LD5-48-A19/156-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3782.4 lumens
Efficiency: N/A
Efficacy: 100.9 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

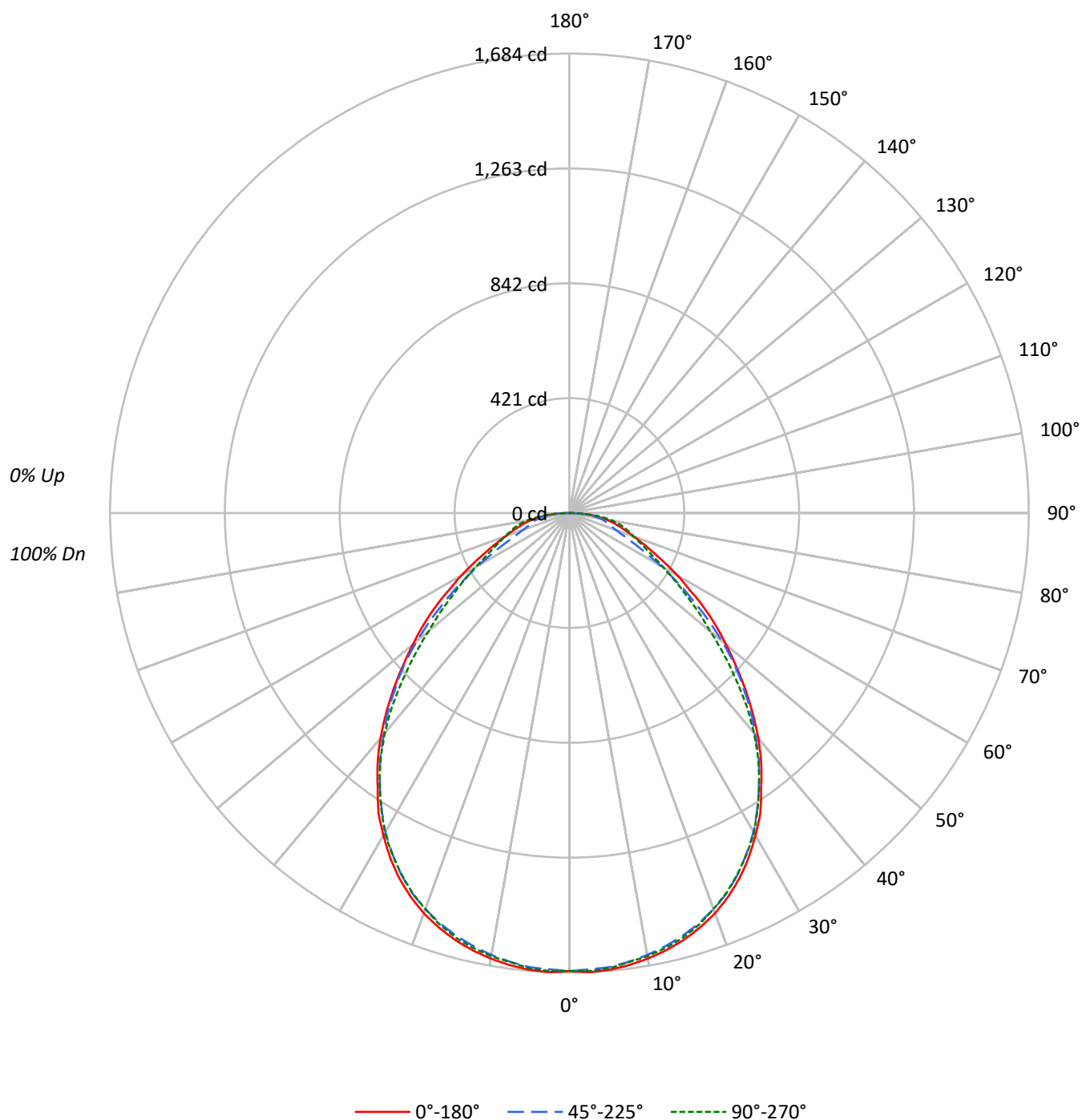
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2570	2570	2570
5°	2583	2569	2575
10°	2578	2557	2564
15°	2568	2542	2554
20°	2544	2518	2517
25°	2494	2468	2466
30°	2412	2387	2393
35°	2291	2265	2268
40°	2154	2117	2104
45°	1974	1948	1871
50°	1785	1736	1605
55°	1602	1459	1384
60°	1403	1174	1217
65°	1224	923	1120
70°	1120	806	1120
75°	1120	857	1234
80°	1216	1011	1407
85°	1334	1141	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	4.2
10°-20°	453.5	12.0
20°-30°	672.5	17.8
30°-40°	758.6	20.1
40°-50°	687.1	18.2
50°-60°	495.7	13.1
60°-70°	296.0	7.8
70°-80°	182.9	4.8
80°-90°	77.1	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°	1284.9	34.0
0°-40°	2043.6	54.0
0°-60°	3226.4	85.3
0°-90°	3782.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1680	1678	1671	1669	1675	160
15°	1620	1610	1603	1604	1610	457
25°	1476	1468	1460	1455	1459	678
35°	1225	1224	1211	1212	1213	767
45°	912	906	899	877	864	702
55°	600	581	546	520	518	536
65°	338	297	255	289	309	340
75°	189	164	145	181	209	202
85°	76	67	65	85	86	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.2	1678.2	1678.2	1678.2	1678.2
2.5°	1684.0	1679.4	1673.5	1677.0	1679.9
5°	1679.9	1677.6	1670.6	1668.9	1674.7
7.5°	1671.2	1665.3	1658.9	1661.8	1659.5
10°	1657.7	1652.5	1644.3	1644.8	1648.9
12.5°	1641.4	1634.9	1626.1	1628.5	1632.0
15°	1619.7	1609.8	1603.4	1604.0	1610.4
17.5°	1592.3	1584.7	1576.5	1578.3	1581.2
20°	1560.7	1556.6	1545.0	1541.4	1544.4
22.5°	1521.0	1513.4	1507.0	1505.2	1505.8
25°	1476.0	1467.8	1460.3	1455.0	1459.0
27.5°	1423.4	1416.4	1406.5	1404.7	1408.2
30°	1363.8	1358.6	1349.8	1347.4	1352.8
32.5°	1303.1	1294.3	1282.0	1282.0	1283.2
35°	1225.3	1223.6	1211.3	1211.9	1213.0
37.5°	1155.2	1147.0	1140.0	1133.0	1136.5
40°	1077.5	1068.1	1058.8	1054.1	1052.4
42.5°	993.9	987.0	982.9	965.9	961.8
45°	911.5	905.7	899.3	877.1	863.6
47.5°	827.4	826.2	821.0	781.8	768.4
50°	749.1	747.3	728.7	687.2	673.7
52.5°	674.9	663.2	638.7	597.8	595.4
55°	600.1	581.4	546.4	519.5	518.3
57.5°	521.2	499.1	463.4	448.8	456.3
60°	458.1	424.2	383.3	385.1	397.4
62.5°	392.7	354.6	314.4	331.9	346.5
65°	337.8	297.4	254.8	289.2	309.1
67.5°	289.8	252.4	211.6	257.7	277.0
70°	250.1	219.7	180.0	228.5	250.1
72.5°	218.5	190.5	159.5	205.1	230.3
75°	189.3	164.2	144.9	180.6	208.6
77.5°	164.2	139.6	130.9	159.5	187.0
80°	137.9	115.7	114.6	139.1	159.5
82.5°	107.5	92.3	92.3	116.3	128.6
85°	75.9	66.6	64.9	84.7	85.9
87.5°	39.1	37.4	33.9	44.4	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)