

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: P219237

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219237
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-LD5-42-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: 3655.1 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

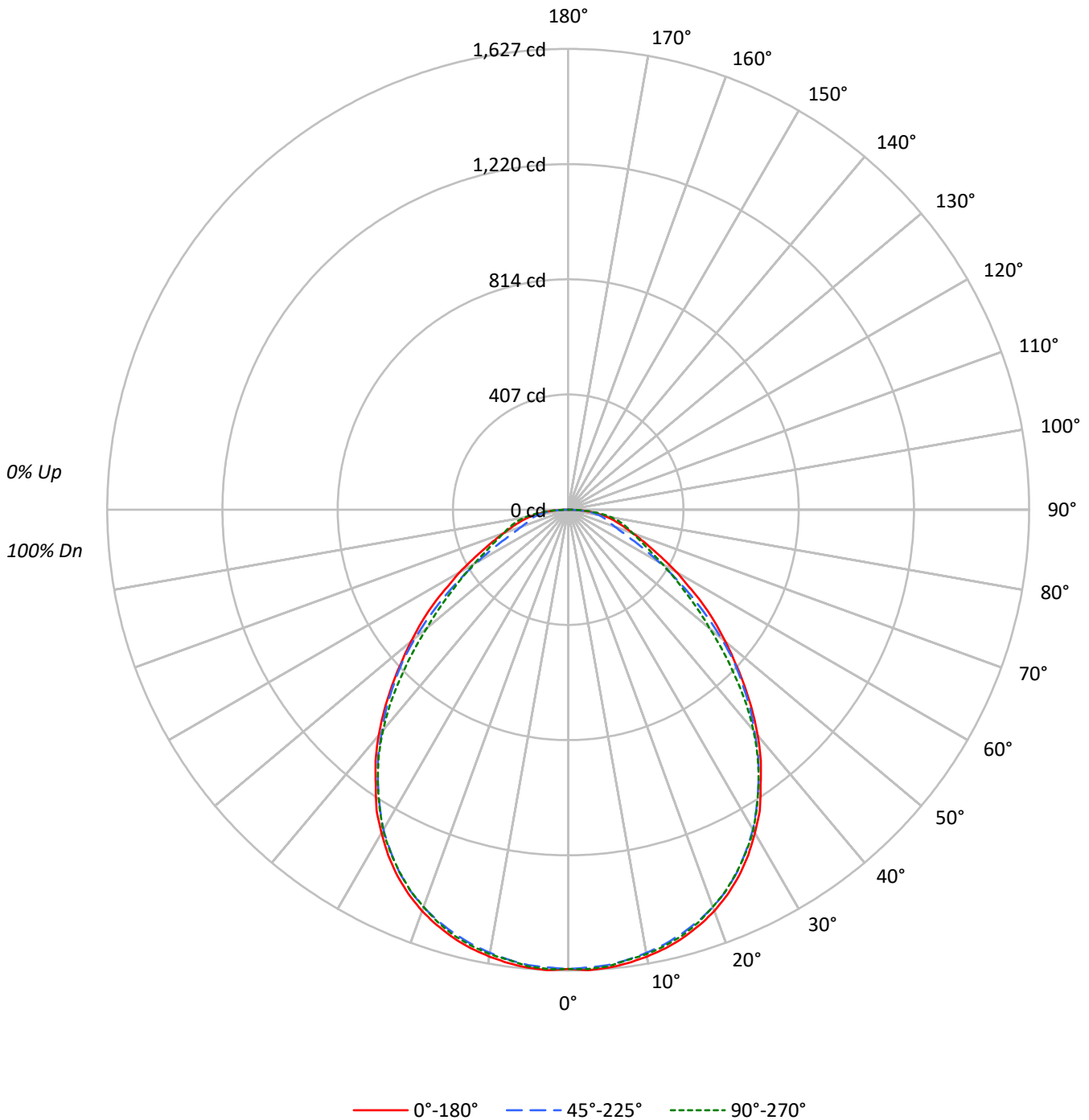
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2484	2484	2484
5°	2496	2482	2488
10°	2491	2471	2478
15°	2482	2457	2468
20°	2458	2433	2432
25°	2410	2385	2383
30°	2331	2307	2312
35°	2214	2189	2192
40°	2082	2046	2033
45°	1908	1882	1808
50°	1725	1678	1551
55°	1549	1410	1338
60°	1356	1135	1176
65°	1183	892	1083
70°	1082	779	1082
75°	1082	828	1193
80°	1176	976	1359
85°	1290	1102	1459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	4.2
10°-20°	438.3	12.0
20°-30°	649.9	17.8
30°-40°	733.1	20.1
40°-50°	664.0	18.2
50°-60°	479.0	13.1
60°-70°	286.0	7.8
70°-80°	176.8	4.8
80°-90°	74.5	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°	1241.7	34.0
0°-40°	1974.8	54.0
0°-60°	3117.8	85.3
0°-90°	3655.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1623	1621	1614	1613	1618	154
15°	1565	1556	1550	1550	1556	441
25°	1426	1418	1411	1406	1410	655
35°	1184	1182	1170	1171	1172	741
45°	881	875	869	848	834	679
55°	580	562	528	502	501	518
65°	326	287	246	280	299	328
75°	183	159	140	174	202	195
85°	73	64	63	82	83	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.7	1621.7	1621.7	1621.7	1621.7
2.5°	1627.4	1622.8	1617.2	1620.6	1623.4
5°	1623.4	1621.1	1614.4	1612.7	1618.3
7.5°	1614.9	1609.3	1603.0	1605.9	1603.6
10°	1601.9	1596.8	1588.9	1589.5	1593.5
12.5°	1586.1	1579.9	1571.5	1573.7	1577.1
15°	1565.2	1555.7	1549.5	1550.0	1556.2
17.5°	1538.7	1531.4	1523.5	1525.1	1528.0
20°	1508.2	1504.2	1493.0	1489.6	1492.4
22.5°	1469.8	1462.4	1456.2	1454.6	1455.1
25°	1426.3	1418.4	1411.1	1406.0	1410.0
27.5°	1375.5	1368.8	1359.1	1357.4	1360.9
30°	1318.0	1312.9	1304.4	1302.1	1307.2
32.5°	1259.2	1250.7	1238.8	1238.8	1240.0
35°	1184.1	1182.4	1170.5	1171.1	1172.3
37.5°	1116.4	1108.5	1101.7	1094.9	1098.3
40°	1041.2	1032.2	1023.1	1018.7	1017.0
42.5°	960.4	953.7	949.8	933.4	929.4
45°	880.9	875.2	869.0	847.5	834.5
47.5°	799.5	798.4	793.4	755.5	742.5
50°	723.9	722.2	704.2	664.0	651.0
52.5°	652.2	640.9	617.1	577.7	575.4
55°	579.9	561.8	528.0	502.0	500.9
57.5°	503.7	482.2	447.8	433.7	441.0
60°	442.7	410.0	370.4	372.1	384.0
62.5°	379.4	342.7	303.8	320.7	334.9
65°	326.4	287.4	246.2	279.5	298.7
67.5°	280.1	243.9	204.4	249.1	267.6
70°	241.7	212.3	173.9	220.8	241.7
72.5°	211.2	184.0	154.1	198.2	222.5
75°	182.9	158.7	140.0	174.5	201.6
77.5°	158.7	134.9	126.5	154.1	180.7
80°	133.3	111.8	110.7	134.4	154.1
82.5°	103.9	89.2	89.2	112.4	124.2
85°	73.4	64.4	62.7	81.9	83.0
87.5°	37.8	36.1	32.8	42.9	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)