

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: P225765

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A19/156-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318.8 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

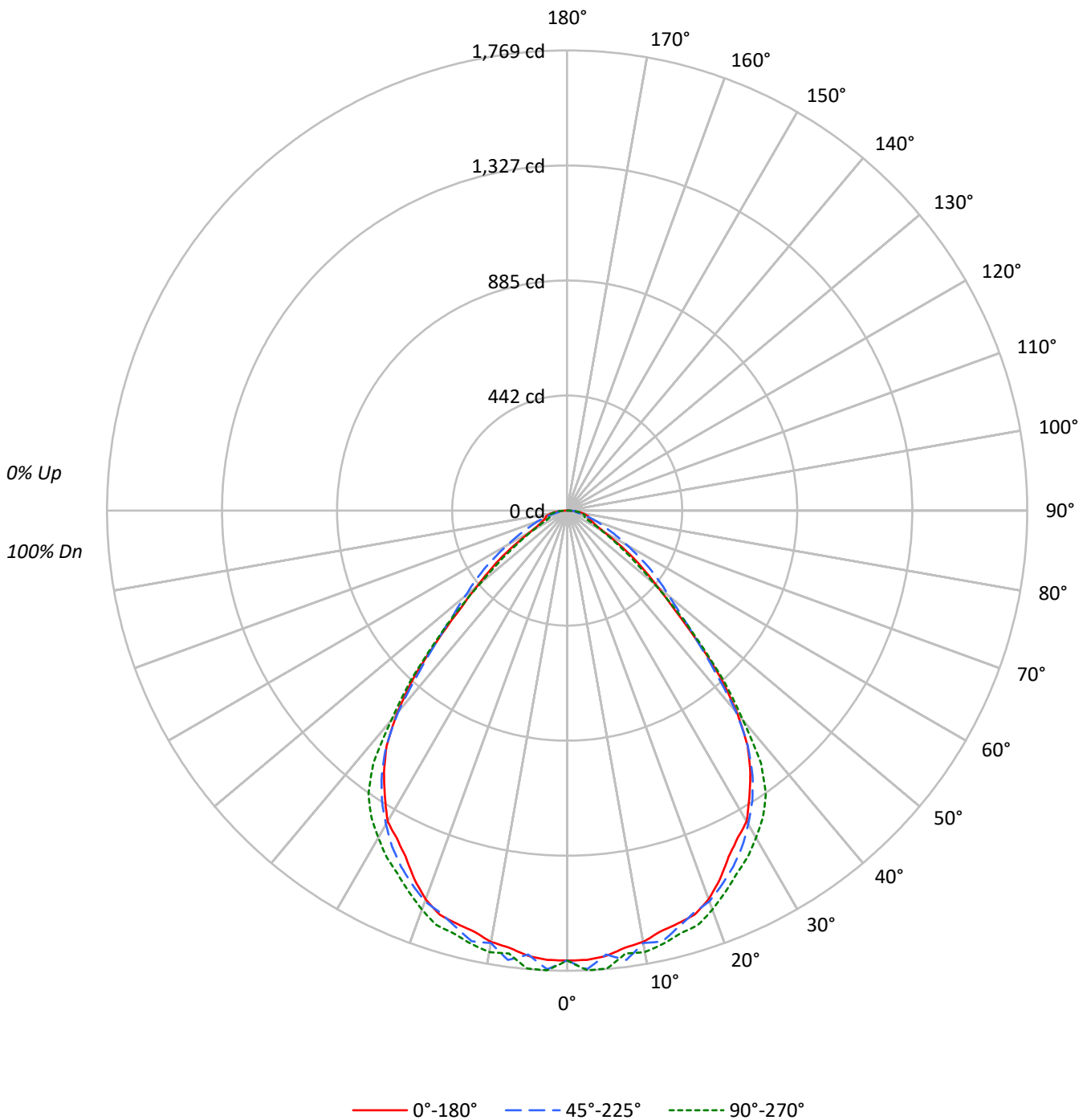
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90					88				
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79					77				
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70					68				
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62					60				
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56					54				
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50					48				
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45					44				
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41					40				
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38					36				
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5539	5539	5539
5°	5525	5508	5681
10°	5475	5490	5604
15°	5449	5491	5579
20°	5420	5447	5564
25°	5189	5336	5446
30°	5103	5150	5370
35°	4800	4860	5206
40°	4253	4224	4390
45°	3177	3184	3272
50°	2236	2544	2166
55°	1650	2148	1480
60°	1032	1698	967
65°	841	1345	676
70°	835	1121	667
75°	1034	822	861
80°	1153	649	1053
85°	1150	1209	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	5.0
10°-20°	469.0	14.1
20°-30°	694.6	20.9
30°-40°	778.1	23.4
40°-50°	571.7	17.2
50°-60°	319.6	9.6
60°-70°	178.1	5.4
70°-80°	104.6	3.2
80°-90°	38.5	1.2
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°	1328.3	40.0
0°-40°	2106.3	63.5
0°-60°	2997.6	90.3
0°-90°	3318.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1719	1751	1713	1748	1767	163
15°	1644	1654	1656	1681	1683	464
25°	1468	1480	1510	1531	1541	681
35°	1228	1228	1243	1300	1332	761
45°	701	758	703	753	722	548
55°	296	360	385	384	265	264
65°	111	197	178	228	89	115
75°	84	118	66	134	70	84
85°	31	46	33	42	32	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.6	1729.6	1729.6	1729.6	1729.6
2.5°	1728.9	1744.5	1764.9	1767.2	1768.8
5°	1718.7	1750.7	1713.3	1748.4	1767.2
7.5°	1695.2	1714.8	1742.2	1707.0	1717.2
10°	1683.5	1688.2	1688.2	1732.0	1723.4
12.5°	1656.9	1688.2	1696.1	1687.4	1706.2
15°	1643.6	1653.8	1656.1	1681.1	1682.8
17.5°	1628.8	1626.4	1621.0	1638.9	1671.0
20°	1590.5	1581.9	1598.3	1620.2	1632.7
22.5°	1534.2	1536.5	1556.1	1574.0	1588.1
25°	1468.5	1480.2	1510.0	1531.1	1541.2
27.5°	1419.2	1436.4	1456.7	1481.8	1502.1
30°	1380.1	1378.6	1392.7	1428.6	1452.1
32.5°	1304.3	1309.8	1324.6	1367.6	1400.5
35°	1227.7	1228.4	1243.2	1299.6	1331.6
37.5°	1139.3	1133.0	1141.6	1202.7	1223.8
40°	1017.3	1018.8	1010.3	1053.2	1050.1
42.5°	875.0	887.5	842.9	899.3	895.3
45°	701.4	758.5	703.0	753.0	722.5
47.5°	553.6	638.1	592.0	628.7	571.6
50°	448.8	535.6	510.6	527.1	434.8
52.5°	368.3	438.7	446.4	450.4	339.3
55°	295.6	359.7	384.7	383.9	265.1
57.5°	218.1	292.5	321.4	333.2	200.9
60°	161.1	243.2	265.1	290.9	150.9
62.5°	129.8	213.5	218.9	254.9	114.9
65°	111.0	197.0	177.5	227.5	89.2
67.5°	98.6	183.7	144.7	203.3	75.8
70°	89.2	163.4	119.7	182.2	71.2
72.5°	86.8	139.2	92.3	162.6	70.3
75°	83.6	118.1	66.4	133.7	69.6
77.5°	72.0	100.8	47.7	103.2	64.9
80°	62.5	80.5	35.2	77.4	57.1
82.5°	48.5	61.0	31.3	58.6	46.1
85°	31.3	46.1	32.9	42.2	32.0
87.5°	14.8	25.8	23.5	22.7	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)