

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: P225757

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225757
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-LD5-32-A19/156-UNV-L940-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: 2813.9 lumens
Efficiency: N/A
Efficacy: 94.0 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

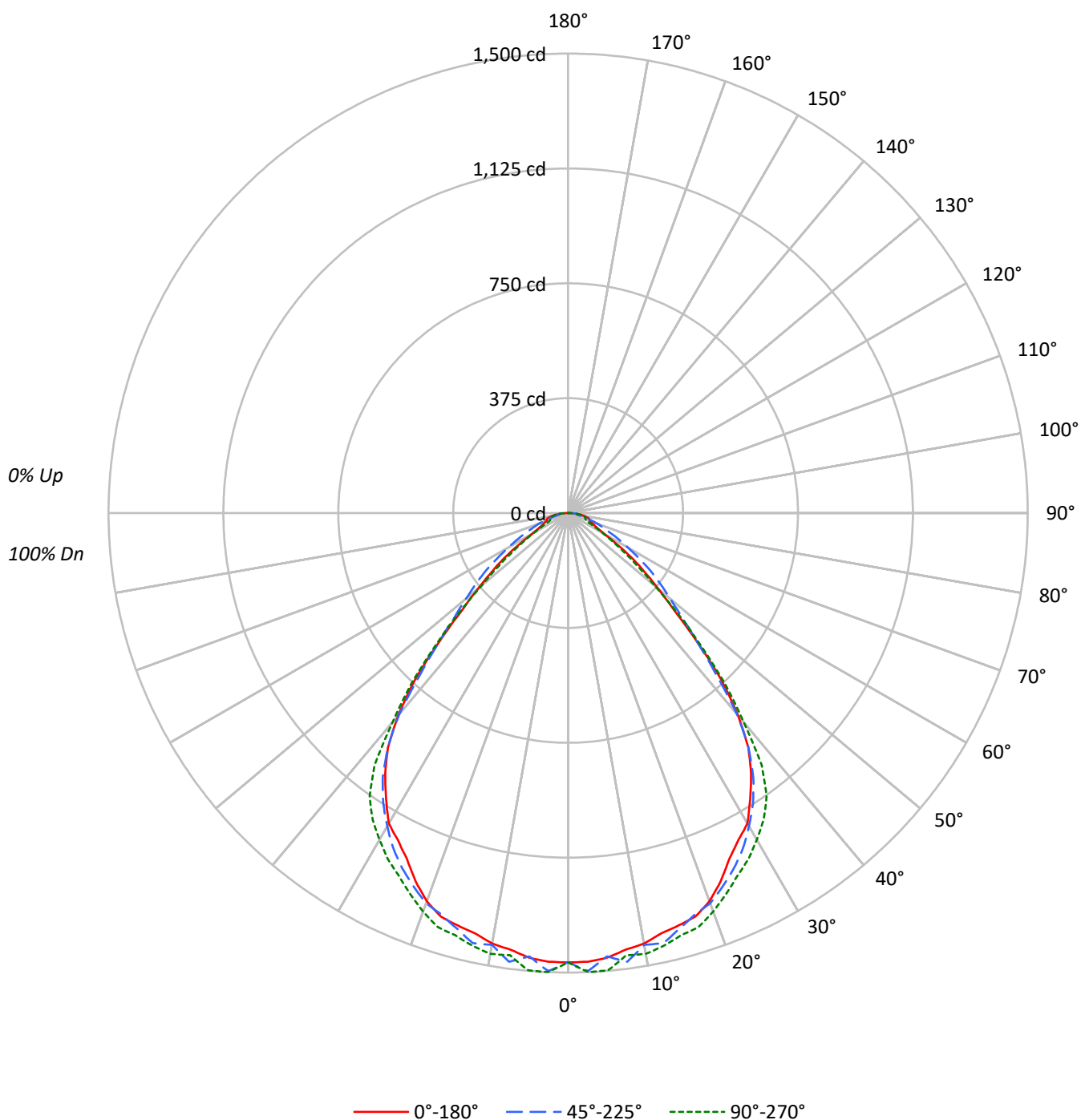
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225757

CATALOG NUMBER: 22GR-LD5-32-A19/156-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225757

CATALOG NUMBER: 22GR-LD5-32-A19/156-UNV-L940-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	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	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°	4697	4697	4697
5°	4685	4670	4817
10°	4642	4655	4752
15°	4620	4656	4730
20°	4596	4619	4718
25°	4400	4524	4618
30°	4327	4366	4553
35°	4069	4121	4414
40°	3606	3581	3722
45°	2693	2700	2774
50°	1896	2157	1836
55°	1399	1821	1255
60°	875	1439	820
65°	714	1140	573
70°	708	950	566
75°	879	697	730
80°	979	550	893
85°	974	1025	999



TEST NUMBER: P225757

CATALOG NUMBER: 22GR-LD5-32-A19/156-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	5.0
10°-20°	397.6	14.1
20°-30°	588.9	20.9
30°-40°	659.7	23.4
40°-50°	484.7	17.2
50°-60°	270.9	9.6
60°-70°	151.0	5.4
70°-80°	88.7	3.2
80°-90°	32.6	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°	1126.2	40.0
0°-40°	1785.9	63.5
0°-60°	2541.6	90.3
0°-90°	2813.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1457	1484	1453	1482	1498	138
15°	1394	1402	1404	1425	1427	394
25°	1245	1255	1280	1298	1307	577
35°	1041	1042	1054	1102	1129	645
45°	595	643	596	638	613	465
55°	251	305	326	326	225	224
65°	94	167	150	193	76	97
75°	71	100	56	113	59	71
85°	26	39	28	36	27	29
90°	0	0	0	0	0	



TEST NUMBER: P225757

CATALOG NUMBER: 22GR-LD5-32-A19/156-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1465.9	1479.1	1496.4	1498.4	1499.7
5°	1457.3	1484.4	1452.6	1482.5	1498.4
7.5°	1437.4	1453.9	1477.1	1447.3	1455.9
10°	1427.4	1431.4	1431.4	1468.5	1461.2
12.5°	1404.9	1431.4	1438.0	1430.7	1446.6
15°	1393.6	1402.2	1404.2	1425.4	1426.7
17.5°	1381.0	1379.0	1374.4	1389.6	1416.8
20°	1348.6	1341.3	1355.2	1373.7	1384.3
22.5°	1300.8	1302.8	1319.3	1334.6	1346.5
25°	1245.1	1255.1	1280.2	1298.2	1306.8
27.5°	1203.3	1217.9	1235.1	1256.4	1273.6
30°	1170.2	1168.8	1180.8	1211.3	1231.2
32.5°	1105.9	1110.5	1123.1	1159.5	1187.4
35°	1040.9	1041.5	1054.2	1101.9	1129.1
37.5°	966.0	960.7	967.9	1019.7	1037.6
40°	862.6	863.9	856.6	893.0	890.4
42.5°	741.9	752.5	714.7	762.5	759.1
45°	594.7	643.1	596.1	638.5	612.6
47.5°	469.4	541.0	501.9	533.0	484.6
50°	380.6	454.2	432.9	446.9	368.6
52.5°	312.3	372.0	378.6	381.9	287.8
55°	250.6	305.0	326.2	325.5	224.7
57.5°	185.0	247.9	272.4	282.4	170.4
60°	136.6	206.2	224.7	246.6	128.0
62.5°	110.1	181.0	185.7	216.1	97.4
65°	94.2	167.1	150.5	192.9	75.6
67.5°	83.5	155.8	122.6	172.3	64.3
70°	75.6	138.5	101.5	154.5	60.4
72.5°	73.6	118.0	78.3	137.9	59.7
75°	71.0	100.1	56.3	113.3	59.0
77.5°	61.0	85.5	40.4	87.5	55.0
80°	53.1	68.3	29.8	65.6	48.4
82.5°	41.1	51.7	26.5	49.7	39.1
85°	26.5	39.1	27.9	35.8	27.2
87.5°	12.6	21.8	19.9	19.3	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)