

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: P476029

Luminaire Tested: **22GR-LD5-36-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476029
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3447.4 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

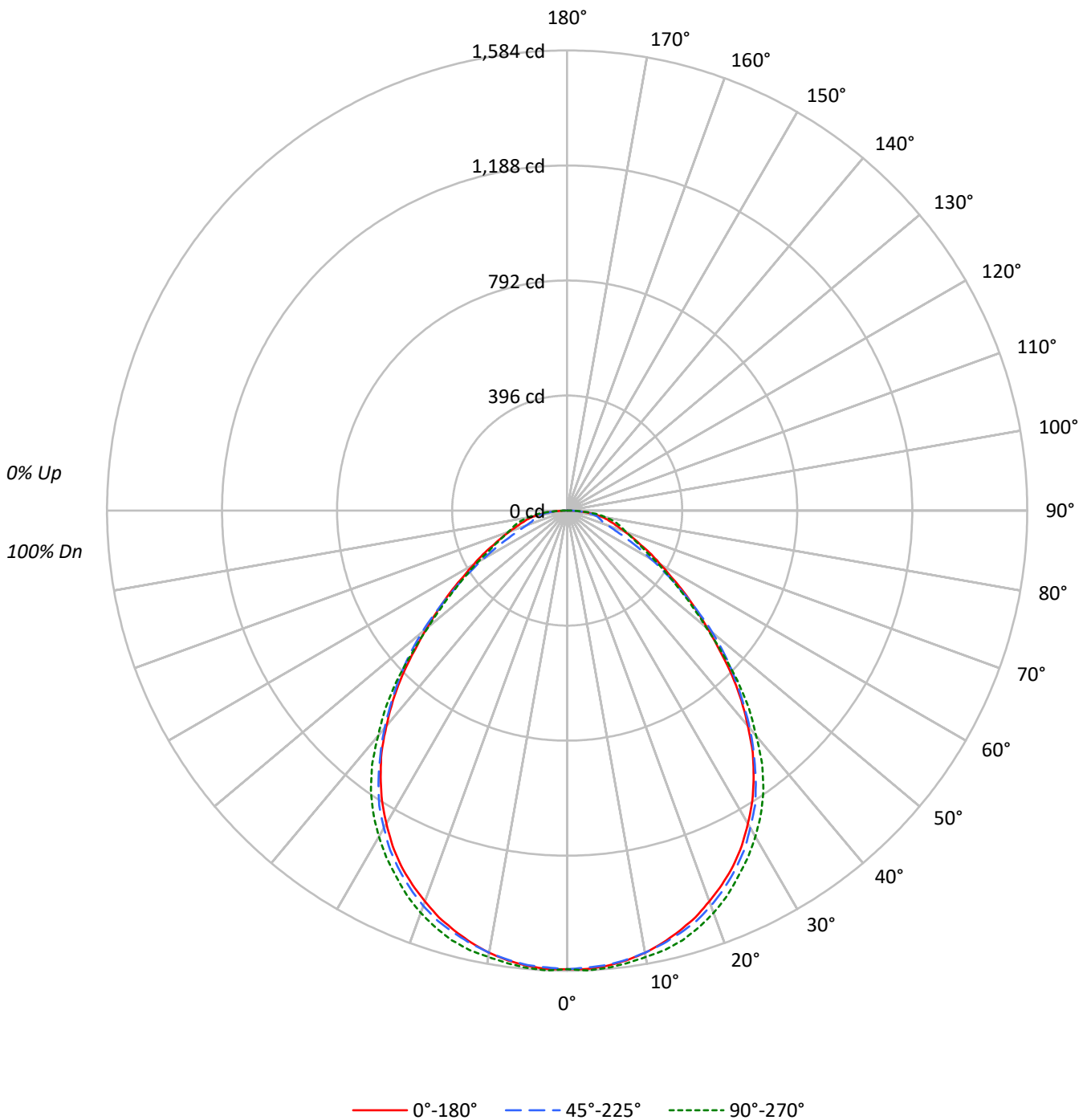
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476029

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476029

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L830-CD1-U

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76					74				
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4248	4248	4248
5°	4250	4243	4269
10°	4224	4222	4264
15°	4171	4193	4266
20°	4098	4147	4220
25°	4011	4057	4130
30°	3866	3919	4026
35°	3677	3718	3869
40°	3399	3436	3556
45°	3053	3108	3157
50°	2640	2734	2613
55°	2304	2243	2213
60°	1995	1796	1917
65°	1783	1410	1722
70°	1654	1168	1699
75°	1651	1234	1885
80°	1829	1553	2125
85°	1908	1686	2405



TEST NUMBER: P476029

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	4.3
10°-20°	425.5	12.3
20°-30°	629.3	18.3
30°-40°	710.2	20.6
40°-50°	626.0	18.2
50°-60°	429.5	12.5
60°-70°	253.4	7.4
70°-80°	158.1	4.6
80°-90°	65.9	1.9
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°	1204.3	34.9
0°-40°	1914.5	55.5
0°-60°	2970.0	86.1
0°-90°	3447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1579	1579	1579	1579	1579	
5°	1573	1570	1571	1576	1580	149
15°	1497	1498	1505	1524	1531	422
25°	1351	1356	1366	1384	1391	620
35°	1119	1129	1132	1159	1178	697
45°	802	806	817	822	830	616
55°	491	479	478	462	472	440
65°	280	246	221	256	270	282
75°	159	143	119	166	181	170
85°	62	58	55	71	78	67
90°	0	0	0	0	0	



TEST NUMBER: P476029

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1579.6	1575.6	1574.1	1580.4	1584.5
5°	1573.2	1570.0	1570.9	1576.4	1580.4
7.5°	1562.0	1559.6	1559.6	1567.5	1571.5
10°	1545.8	1545.2	1545.2	1554.8	1560.3
12.5°	1523.6	1524.2	1527.4	1540.3	1549.9
15°	1497.0	1498.5	1505.1	1523.6	1531.4
17.5°	1468.1	1468.1	1480.9	1495.3	1505.1
20°	1431.2	1433.5	1448.0	1464.1	1473.7
22.5°	1393.4	1397.5	1409.6	1428.0	1436.7
25°	1351.0	1355.9	1366.3	1383.9	1391.1
27.5°	1301.3	1307.7	1318.9	1331.6	1346.9
30°	1244.2	1254.0	1261.2	1278.8	1295.6
32.5°	1186.4	1195.4	1203.4	1221.9	1241.0
35°	1119.2	1128.7	1131.9	1159.3	1177.7
37.5°	1050.2	1054.2	1055.7	1083.1	1103.0
40°	967.6	975.4	978.0	999.6	1012.4
42.5°	888.0	891.4	896.0	912.2	927.5
45°	802.2	806.2	816.7	821.5	829.6
47.5°	712.4	724.5	736.4	721.1	722.0
50°	630.5	640.2	653.0	624.1	624.1
52.5°	557.5	562.3	563.2	539.2	543.9
55°	491.0	478.9	478.1	462.1	471.7
57.5°	424.4	408.4	402.7	397.8	409.1
60°	370.6	341.8	333.7	340.9	356.2
62.5°	326.5	289.6	274.3	292.7	306.5
65°	280.0	246.2	221.4	256.0	270.4
67.5°	243.9	211.9	179.8	228.6	239.0
70°	210.2	185.3	148.4	207.8	215.9
72.5°	183.0	163.7	128.4	187.7	197.4
75°	158.8	142.9	118.7	166.0	181.3
77.5°	139.7	121.9	110.8	143.5	162.0
80°	118.0	100.2	100.2	120.4	137.1
82.5°	93.0	78.5	81.1	97.9	110.0
85°	61.8	57.7	54.6	71.3	77.9
87.5°	31.2	32.1	28.9	36.9	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)