

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: P476281

Luminaire Tested: **14GR-LD5-36-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476281
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476.5 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

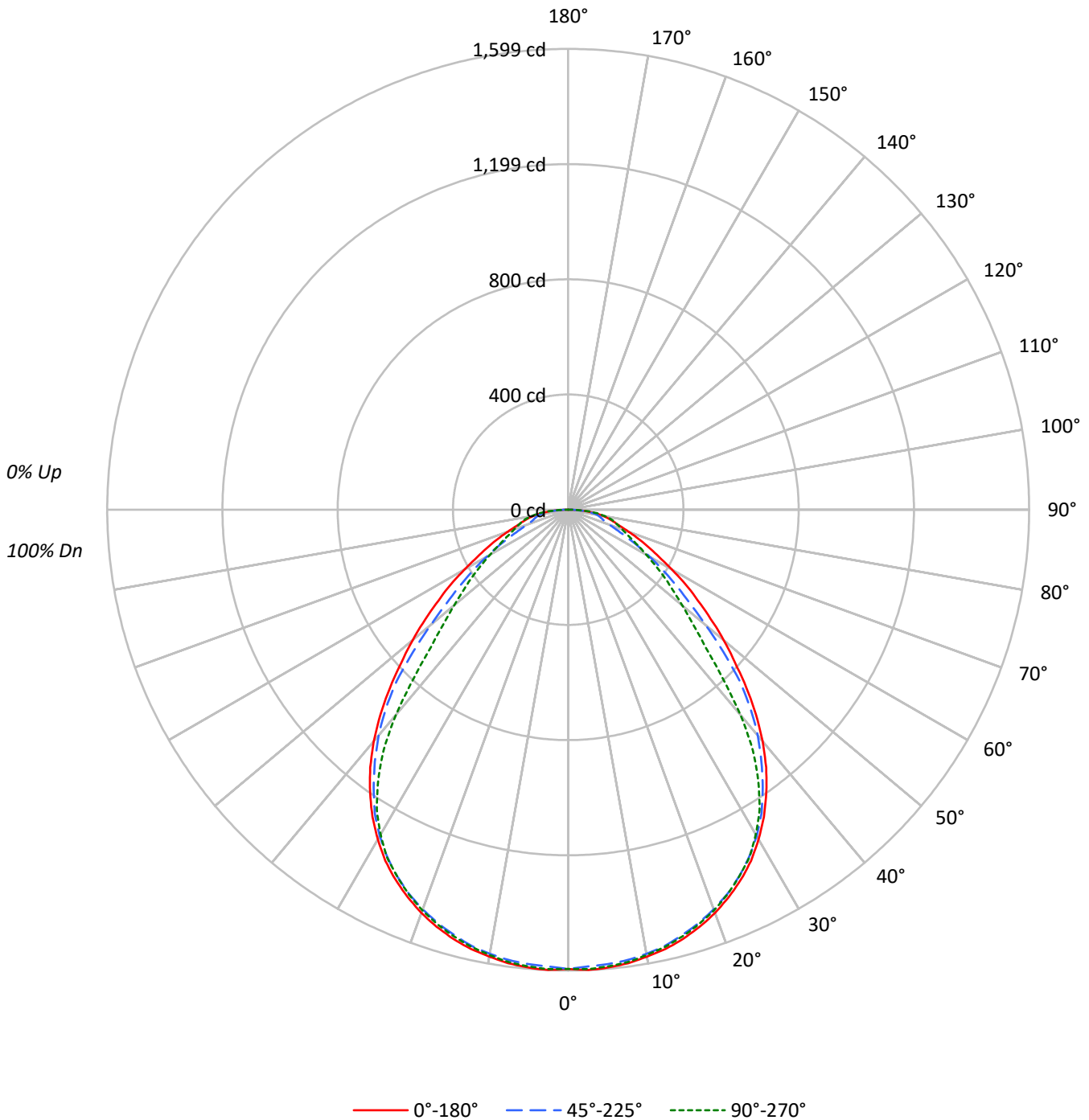
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5368	5368	5368
5°	5394	5353	5380
10°	5387	5354	5368
15°	5377	5329	5346
20°	5339	5290	5304
25°	5268	5217	5221
30°	5139	5086	5064
35°	4929	4840	4729
40°	4614	4497	4092
45°	4167	4010	3198
50°	3696	3255	2705
55°	3225	2671	2386
60°	2796	2198	2107
65°	2453	1764	1945
70°	2187	1497	1958
75°	2134	1578	2187
80°	2365	1989	2507
85°	2463	2123	2934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	4.3
10°-20°	433.0	12.5
20°-30°	647.7	18.6
30°-40°	731.2	21.0
40°-50°	620.3	17.8
50°-60°	419.7	12.1
60°-70°	250.5	7.2
70°-80°	156.9	4.5
80°-90°	66.0	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°	1231.9	35.4
0°-40°	1963.1	56.5
0°-60°	3003.1	86.4
0°-90°	3476.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1595	1590	1583	1594	1591	152
15°	1542	1538	1528	1538	1532	435
25°	1417	1412	1403	1410	1404	652
35°	1198	1190	1176	1166	1150	747
45°	874	878	841	721	671	674
55°	549	523	455	407	406	495
65°	308	255	221	236	244	307
75°	164	146	121	160	168	176
85°	64	60	55	71	76	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.2	1593.2	1593.2	1593.2	1593.2
2.5°	1598.7	1593.8	1586.5	1596.4	1595.5
5°	1594.7	1589.9	1582.6	1593.8	1590.6
7.5°	1587.4	1583.3	1576.2	1586.5	1583.3
10°	1574.5	1571.3	1564.8	1573.7	1568.9
12.5°	1560.8	1558.4	1550.3	1558.4	1553.5
15°	1541.5	1538.2	1527.7	1538.2	1532.5
17.5°	1517.2	1513.1	1504.3	1513.1	1508.2
20°	1488.9	1484.2	1475.2	1484.2	1479.2
22.5°	1455.0	1450.9	1443.0	1450.9	1444.5
25°	1417.0	1412.3	1403.3	1409.7	1404.2
27.5°	1373.5	1367.0	1358.9	1363.8	1360.6
30°	1320.9	1313.0	1307.2	1307.2	1301.6
32.5°	1263.6	1258.0	1248.4	1242.6	1235.3
35°	1198.2	1190.2	1176.5	1166.0	1149.7
37.5°	1128.0	1118.4	1101.4	1074.6	1052.9
40°	1048.9	1036.7	1022.3	969.7	930.2
42.5°	964.1	961.6	936.7	847.0	792.1
45°	874.5	877.7	841.4	721.1	671.1
47.5°	783.9	795.3	729.2	611.2	585.5
50°	705.0	708.9	620.9	530.5	516.0
52.5°	623.4	616.8	529.7	466.6	456.1
55°	549.0	523.3	454.6	407.0	406.1
57.5°	483.6	436.0	388.3	352.9	357.0
60°	414.9	361.7	326.1	306.8	312.6
62.5°	354.4	303.6	272.1	266.5	276.1
65°	307.6	255.1	221.2	235.8	243.9
67.5°	263.2	218.8	180.0	214.8	218.0
70°	222.0	189.7	151.9	197.8	198.7
72.5°	188.1	168.0	131.5	179.3	181.7
75°	163.9	146.1	121.2	159.8	168.0
77.5°	143.7	125.1	112.2	138.1	151.9
80°	121.9	100.9	102.5	115.4	129.2
82.5°	93.7	78.3	81.5	95.3	104.9
85°	63.7	60.5	54.9	71.0	75.9
87.5°	33.9	32.4	28.3	40.3	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)