

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: P476326

Luminaire Tested: **14GR-LD5-36-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476326
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A125-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3729.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

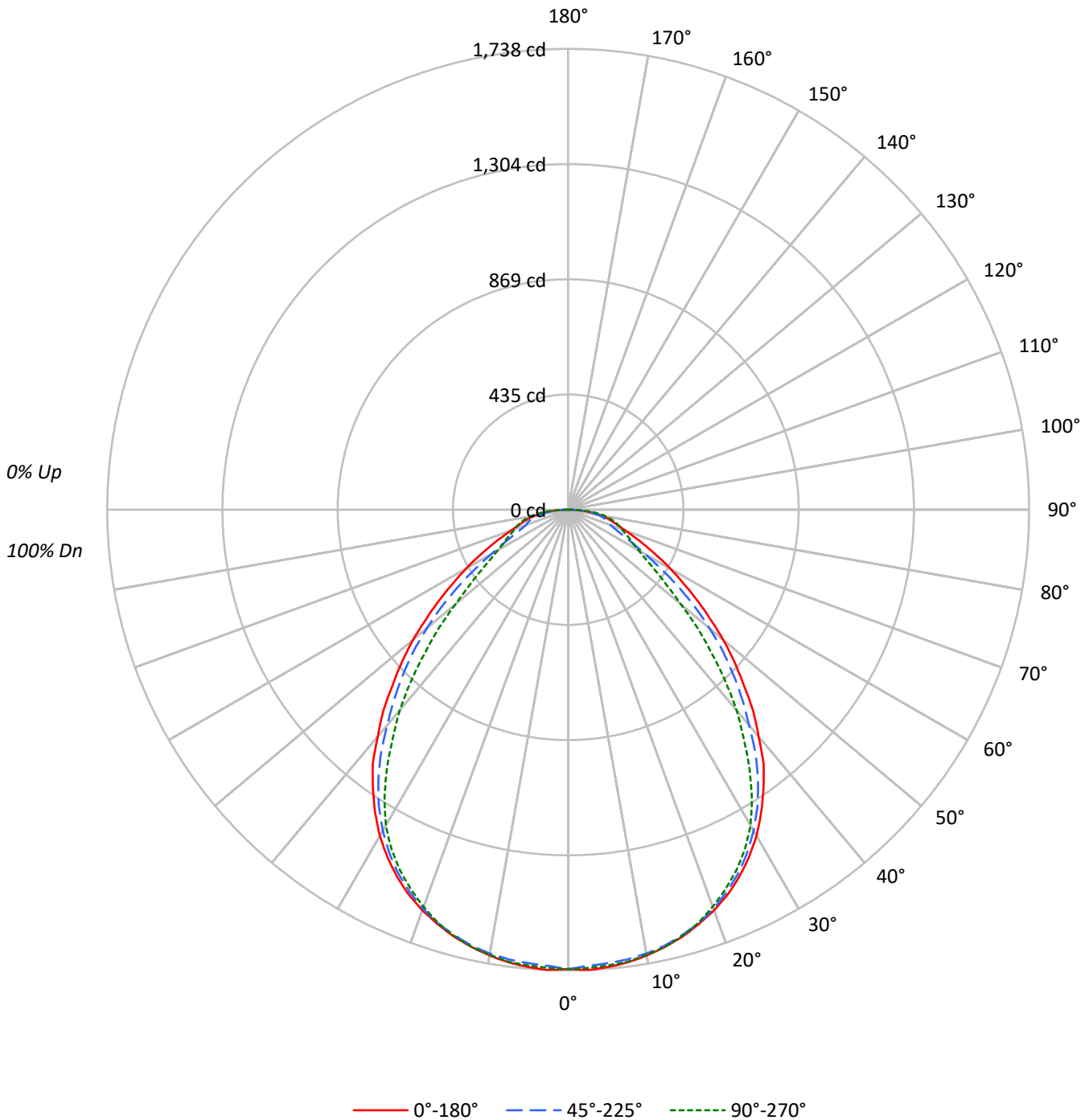
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86	86	86	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74	74	74	74	74	74	74		
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64	64	64	64	64	64	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56	56	56	56	56	56	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50		
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44	44	44	44	44	44	44		
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40	40	40	40	40	40	40		
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36	36	36	36	36	36	36		
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33	33	33	33	33	33	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30	30	30	30	30	30	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4662	4662	4662
5°	4677	4637	4660
10°	4665	4643	4658
15°	4642	4626	4635
20°	4603	4586	4564
25°	4534	4498	4454
30°	4413	4343	4271
35°	4216	4099	3914
40°	3924	3726	3470
45°	3565	3350	2909
50°	3193	2910	2318
55°	2773	2374	1882
60°	2393	1795	1641
65°	2047	1435	1611
70°	1806	1336	1691
75°	1802	1531	1928
80°	1948	1787	2216
85°	2087	1899	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	4.4
10°-20°	469.3	12.6
20°-30°	696.4	18.7
30°-40°	773.3	20.7
40°-50°	666.9	17.9
50°-60°	452.3	12.1
60°-70°	261.5	7.0
70°-80°	170.7	4.6
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°	1329.7	35.7
0°-40°	2103.1	56.4
0°-60°	3222.3	86.4
0°-90°	3729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1731	1724	1717	1729	1725	165
15°	1666	1663	1660	1672	1664	470
25°	1527	1525	1515	1510	1500	702
35°	1283	1271	1248	1213	1192	800
45°	937	922	880	808	764	724
55°	591	579	506	431	401	531
65°	322	285	225	230	253	323
75°	173	157	147	165	185	185
85°	68	66	62	86	82	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.3	1732.3	1732.3	1732.3	1732.3
2.5°	1737.5	1731.4	1721.9	1732.3	1729.7
5°	1731.4	1724.5	1716.7	1728.8	1725.3
7.5°	1721.9	1714.9	1710.6	1721.0	1719.3
10°	1707.1	1701.9	1699.3	1712.3	1704.5
12.5°	1688.9	1684.6	1683.7	1694.1	1688.1
15°	1666.4	1663.0	1660.4	1671.6	1663.8
17.5°	1638.7	1637.0	1635.2	1640.4	1633.5
20°	1607.5	1605.8	1601.4	1602.3	1593.6
22.5°	1571.1	1569.4	1560.7	1559.0	1549.4
25°	1526.9	1525.2	1514.8	1510.4	1500.0
27.5°	1476.6	1477.5	1460.2	1452.4	1442.8
30°	1420.3	1416.8	1397.8	1384.8	1374.4
32.5°	1354.5	1350.1	1327.6	1306.8	1288.6
35°	1283.4	1271.3	1247.9	1213.2	1191.5
37.5°	1210.6	1194.1	1159.5	1115.3	1086.7
40°	1117.0	1099.7	1060.7	1010.4	987.9
42.5°	1033.0	1014.8	971.4	912.5	877.0
45°	936.8	922.0	880.4	807.6	764.3
47.5°	849.2	833.6	791.2	705.4	662.9
50°	762.6	745.3	695.0	602.3	553.7
52.5°	672.5	662.9	601.4	508.7	469.7
55°	591.0	578.9	506.1	430.7	401.2
57.5°	513.0	493.1	414.2	357.9	346.6
60°	444.6	416.8	333.6	302.4	305.0
62.5°	379.6	346.6	273.8	259.1	273.8
65°	321.5	285.1	225.3	230.5	253.0
67.5°	270.4	235.7	191.5	212.3	231.4
70°	229.6	201.0	169.8	193.2	214.9
72.5°	196.7	177.6	159.4	177.6	201.0
75°	173.3	156.8	147.3	164.6	185.4
77.5°	151.6	138.7	134.3	148.2	165.5
80°	125.7	119.6	115.3	133.5	143.0
82.5°	97.1	94.5	91.0	113.5	117.9
85°	67.6	65.9	61.5	85.8	82.3
87.5°	35.5	33.8	31.2	45.1	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)