

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: P291221

Luminaire Tested: **14GR-LD5-36-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A125-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3808.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

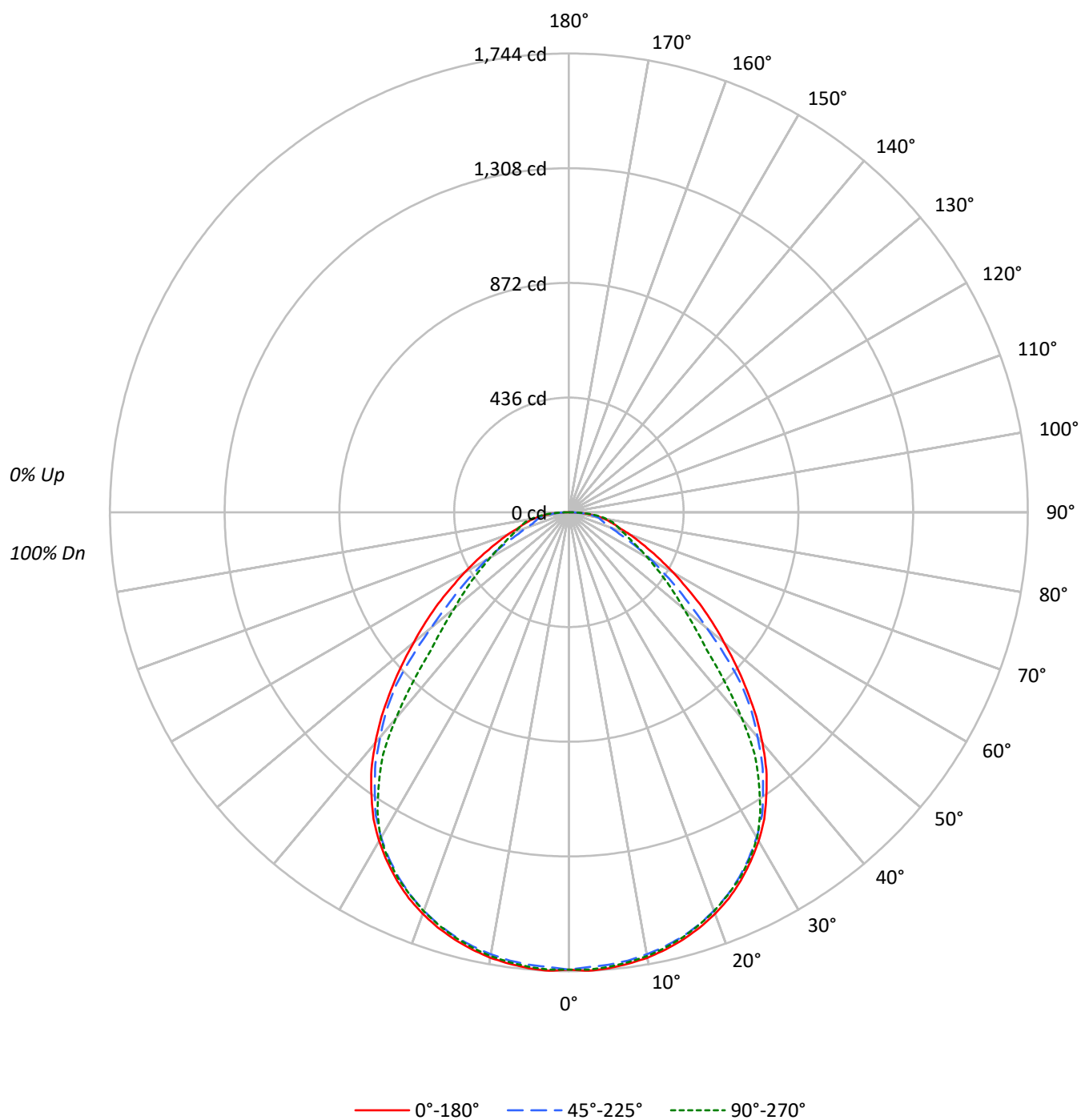
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	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		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64		
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36		
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4676	4676	4676
5°	4699	4663	4685
10°	4698	4661	4681
15°	4681	4652	4659
20°	4650	4615	4619
25°	4588	4546	4559
30°	4483	4433	4444
35°	4298	4226	4136
40°	4019	3920	3597
45°	3638	3534	2821
50°	3218	2859	2378
55°	2847	2350	2097
60°	2458	1945	1859
65°	2138	1547	1710
70°	1932	1327	1710
75°	1856	1387	1911
80°	2067	1767	2232
85°	2183	1883	2674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	4.3
10°-20°	472.4	12.4
20°-30°	706.9	18.6
30°-40°	800.2	21.0
40°-50°	681.6	17.9
50°-60°	461.5	12.1
60°-70°	275.5	7.2
70°-80°	172.2	4.5
80°-90°	72.8	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°	1344.1	35.3
0°-40°	2144.4	56.3
0°-60°	3287.5	86.3
0°-90°	3808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1740	1735	1726	1737	1734	165
15°	1680	1674	1670	1680	1672	474
25°	1545	1541	1531	1538	1535	711
35°	1308	1300	1286	1273	1259	815
45°	956	958	928	792	741	737
55°	607	573	501	447	447	543
65°	336	280	243	260	269	338
75°	178	160	133	175	184	193
85°	71	65	61	77	87	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1737.7	1737.7	1737.7	1737.7	1737.7
2.5°	1743.9	1739.5	1729.8	1741.2	1739.5
5°	1739.5	1735.1	1726.2	1736.8	1734.2
7.5°	1730.6	1726.2	1718.3	1728.9	1724.5
10°	1719.2	1713.9	1705.9	1717.4	1713.0
12.5°	1701.5	1696.2	1689.1	1700.6	1694.4
15°	1680.3	1674.1	1669.7	1680.3	1672.3
17.5°	1654.7	1649.4	1643.2	1653.8	1644.9
20°	1623.7	1619.3	1611.4	1617.6	1613.1
22.5°	1588.4	1582.2	1574.3	1581.3	1575.2
25°	1545.1	1540.7	1531.0	1538.1	1535.4
27.5°	1495.6	1493.0	1481.5	1490.3	1485.9
30°	1442.6	1435.6	1426.7	1429.4	1430.3
32.5°	1381.7	1372.9	1365.8	1359.6	1353.4
35°	1308.4	1300.4	1286.3	1273.0	1258.9
37.5°	1232.4	1221.8	1207.7	1178.5	1160.8
40°	1144.0	1138.7	1115.8	1075.1	1023.9
42.5°	1053.9	1048.6	1028.3	937.3	881.7
45°	955.9	958.5	928.5	791.6	741.2
47.5°	862.2	869.3	803.9	675.8	649.3
50°	768.6	776.5	682.9	583.9	568.0
52.5°	686.4	680.2	582.2	512.4	505.3
55°	606.9	573.3	500.9	447.0	447.0
57.5°	525.6	477.9	425.8	391.4	391.4
60°	456.7	397.5	361.3	338.4	345.4
62.5°	393.1	330.4	299.5	295.1	303.9
65°	335.7	280.0	242.9	259.7	268.6
67.5°	288.9	239.4	199.7	235.0	240.3
70°	245.6	208.5	168.7	216.4	217.3
72.5°	205.8	183.8	144.9	196.1	199.7
75°	178.5	159.9	133.4	174.9	183.8
77.5°	156.4	136.9	122.8	151.1	167.9
80°	133.4	112.2	114.0	127.2	144.0
82.5°	102.5	86.6	90.1	104.2	117.5
85°	70.7	65.4	61.0	76.9	86.6
87.5°	38.0	35.3	30.9	43.3	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)