

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: P291024

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

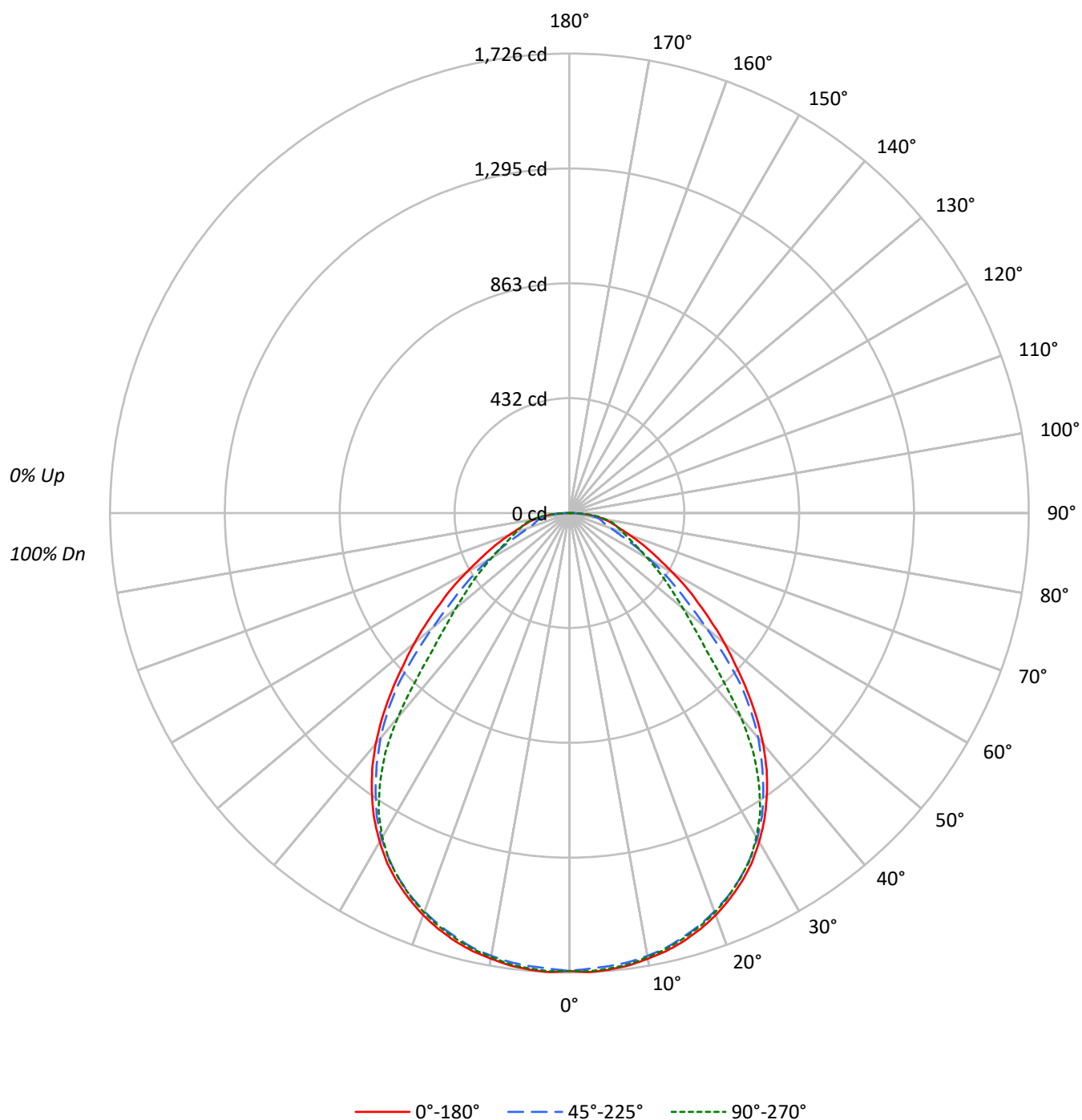
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4628	4628	4628
5°	4650	4615	4639
10°	4644	4616	4628
15°	4636	4595	4609
20°	4603	4560	4573
25°	4542	4498	4501
30°	4431	4385	4366
35°	4249	4172	4077
40°	3978	3876	3528
45°	3593	3457	2757
50°	3186	2806	2332
55°	2781	2302	2057
60°	2411	1896	1815
65°	2115	1521	1676
70°	1886	1290	1687
75°	1839	1359	1885
80°	2039	1715	2162
85°	2127	1831	2529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	4.3
10°-20°	467.4	12.5
20°-30°	699.2	18.6
30°-40°	789.3	21.0
40°-50°	669.6	17.8
50°-60°	453.1	12.1
60°-70°	270.4	7.2
70°-80°	169.4	4.5
80°-90°	71.3	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°	1329.9	35.4
0°-40°	2119.2	56.5
0°-60°	3241.9	86.4
0°-90°	3753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1722	1716	1708	1721	1717	164
15°	1664	1660	1649	1660	1654	469
25°	1530	1524	1515	1522	1516	703
35°	1294	1285	1270	1259	1241	806
45°	944	948	908	778	724	727
55°	593	565	491	439	438	534
65°	332	275	239	254	263	332
75°	177	158	131	173	181	190
85°	69	65	59	77	82	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1719.8	1719.8	1719.8	1719.8	1719.8
2.5°	1725.9	1720.7	1712.8	1723.3	1722.4
5°	1721.5	1716.3	1708.5	1720.7	1717.2
7.5°	1713.7	1709.3	1701.5	1712.8	1709.3
10°	1699.7	1696.3	1689.3	1698.9	1693.6
12.5°	1684.9	1682.3	1673.6	1682.3	1677.1
15°	1664.0	1660.5	1649.2	1660.5	1654.4
17.5°	1637.9	1633.5	1623.9	1633.5	1628.3
20°	1607.3	1602.1	1592.5	1602.1	1596.9
22.5°	1570.7	1566.4	1557.7	1566.4	1559.4
25°	1529.8	1524.5	1515.0	1521.9	1515.8
27.5°	1482.7	1475.7	1467.0	1472.2	1468.8
30°	1426.0	1417.3	1411.2	1411.2	1405.1
32.5°	1364.2	1358.1	1347.6	1341.5	1333.6
35°	1293.5	1284.8	1270.0	1258.7	1241.2
37.5°	1217.7	1207.3	1188.9	1160.2	1136.6
40°	1132.3	1119.2	1103.5	1046.9	1004.2
42.5°	1040.8	1038.2	1011.1	914.4	855.1
45°	944.0	947.5	908.3	778.4	724.4
47.5°	846.4	858.6	787.1	659.8	632.0
50°	761.0	765.3	670.3	572.7	557.0
52.5°	672.9	666.0	571.8	503.8	492.5
55°	592.7	564.8	490.7	439.3	438.4
57.5°	522.1	470.7	419.3	380.9	385.3
60°	448.0	390.5	352.2	331.2	337.3
62.5°	382.7	327.7	293.8	287.6	298.1
65°	332.1	275.4	238.8	254.5	263.2
67.5°	284.2	236.2	194.4	231.9	235.3
70°	239.7	204.8	163.9	213.6	214.4
72.5°	203.1	181.3	142.1	193.5	196.1
75°	176.9	157.8	130.7	172.6	181.3
77.5°	155.2	135.1	121.2	149.1	163.9
80°	131.6	109.0	110.7	124.6	139.5
82.5°	101.1	84.6	88.0	102.9	113.3
85°	68.9	65.4	59.3	76.7	81.9
87.5°	36.6	34.9	30.5	43.6	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)