

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: P291015

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291015
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-LD5-32-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: 3358.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

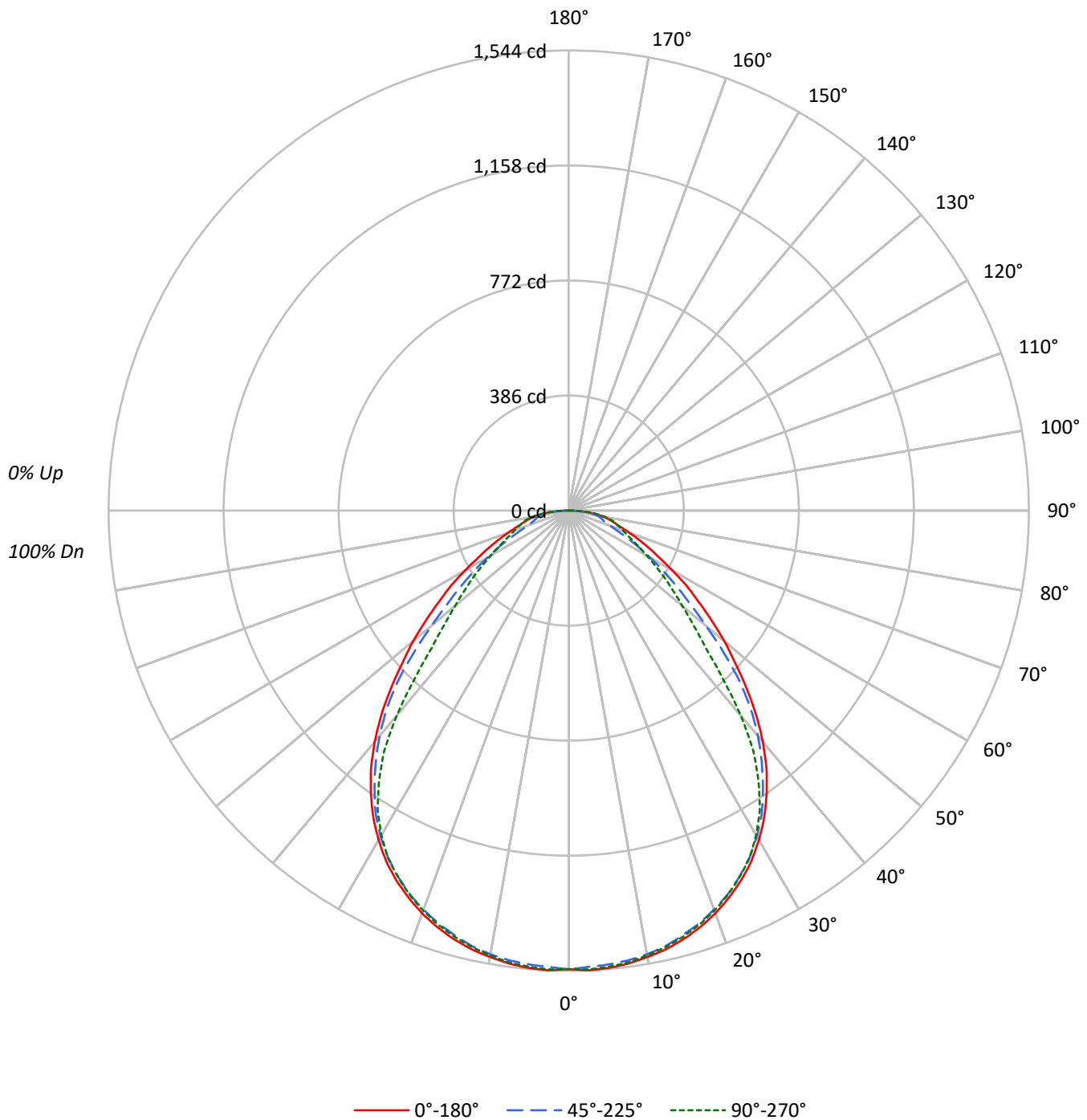
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291015

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P291015

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-4500K

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°	4141	4141	4141
5°	4161	4129	4150
10°	4156	4130	4141
15°	4148	4111	4124
20°	4119	4080	4092
25°	4064	4025	4027
30°	3965	3924	3906
35°	3802	3733	3648
40°	3559	3469	3156
45°	3215	3093	2466
50°	2851	2511	2087
55°	2488	2060	1841
60°	2158	1696	1624
65°	1892	1361	1500
70°	1688	1153	1510
75°	1646	1216	1686
80°	1826	1534	1934
85°	1902	1636	2263



TEST NUMBER: P291015

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	4.3
10°-20°	418.2	12.5
20°-30°	625.7	18.6
30°-40°	706.3	21.0
40°-50°	599.2	17.8
50°-60°	405.4	12.1
60°-70°	242.0	7.2
70°-80°	151.5	4.5
80°-90°	63.8	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°	1189.9	35.4
0°-40°	1896.2	56.5
0°-60°	2900.7	86.4
0°-90°	3358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1540	1536	1529	1540	1536	146
15°	1489	1486	1476	1486	1480	420
25°	1369	1364	1356	1362	1356	629
35°	1157	1150	1136	1126	1111	721
45°	845	848	813	696	648	651
55°	530	505	439	393	392	478
65°	297	246	214	228	236	297
75°	158	141	117	154	162	170
85°	62	58	53	69	73	66
90°	0	0	0	0	0	



TEST NUMBER: P291015

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.8	1538.8	1538.8	1538.8	1538.8
2.5°	1544.2	1539.6	1532.5	1541.9	1541.1
5°	1540.3	1535.7	1528.6	1539.6	1536.4
7.5°	1533.3	1529.4	1522.4	1532.5	1529.4
10°	1520.8	1517.7	1511.5	1520.1	1515.4
12.5°	1507.6	1505.2	1497.4	1505.2	1500.6
15°	1488.9	1485.7	1475.6	1485.7	1480.3
17.5°	1465.5	1461.6	1453.0	1461.6	1456.9
20°	1438.2	1433.5	1424.9	1433.5	1428.8
22.5°	1405.4	1401.5	1393.7	1401.5	1395.3
25°	1368.8	1364.1	1355.5	1361.7	1356.3
27.5°	1326.6	1320.4	1312.6	1317.3	1314.2
30°	1276.0	1268.2	1262.7	1262.7	1257.2
32.5°	1220.6	1215.1	1205.8	1200.3	1193.3
35°	1157.4	1149.6	1136.3	1126.2	1110.6
37.5°	1089.5	1080.2	1063.8	1038.1	1017.0
40°	1013.1	1001.4	987.4	936.7	898.5
42.5°	931.2	928.9	904.7	818.1	765.1
45°	844.7	847.8	812.7	696.5	648.1
47.5°	757.3	768.2	704.3	590.4	565.4
50°	680.9	684.8	599.8	512.4	498.4
52.5°	602.1	595.9	511.6	450.8	440.7
55°	530.3	505.4	439.1	393.1	392.3
57.5°	467.2	421.2	375.1	340.8	344.7
60°	400.9	349.4	315.1	296.4	301.8
62.5°	342.4	293.3	262.8	257.4	266.7
65°	297.1	246.5	213.7	227.7	235.5
67.5°	254.3	211.4	173.9	207.5	210.6
70°	214.5	183.3	146.6	191.1	191.9
72.5°	181.7	162.2	127.1	173.1	175.5
75°	158.3	141.2	117.0	154.4	162.2
77.5°	138.8	120.9	108.4	133.4	146.6
80°	117.8	97.5	99.0	111.5	124.8
82.5°	90.5	75.7	78.8	92.0	101.4
85°	61.6	58.5	53.0	68.6	73.3
87.5°	32.8	31.2	27.3	39.0	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)