

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: P291018

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291018
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

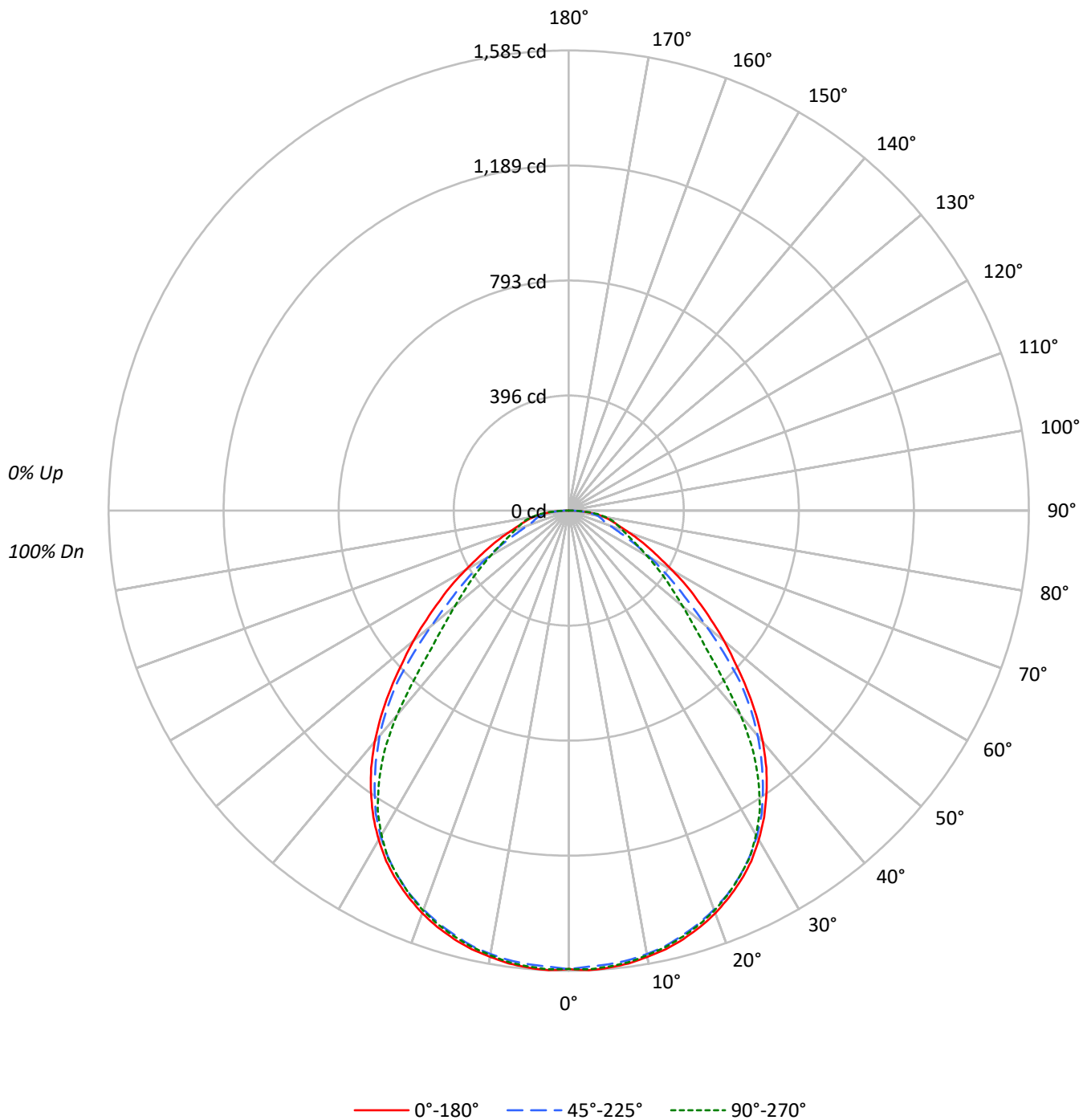
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291018

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P291018

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-5700K

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	50	30	10
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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4249	4249	4249
5°	4270	4237	4259
10°	4265	4238	4249
15°	4257	4219	4232
20°	4227	4188	4199
25°	4170	4130	4132
30°	4069	4026	4009
35°	3902	3831	3744
40°	3652	3560	3239
45°	3299	3174	2531
50°	2925	2577	2141
55°	2553	2114	1889
60°	2214	1740	1667
65°	1941	1396	1539
70°	1732	1184	1549
75°	1690	1249	1731
80°	1874	1574	1985
85°	1951	1680	2322



TEST NUMBER: P291018

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	4.3
10°-20°	429.2	12.5
20°-30°	642.0	18.6
30°-40°	724.8	21.0
40°-50°	614.9	17.8
50°-60°	416.0	12.1
60°-70°	248.3	7.2
70°-80°	155.5	4.5
80°-90°	65.4	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°	1221.1	35.4
0°-40°	1945.9	56.5
0°-60°	2976.7	86.4
0°-90°	3446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1579	1579	1579	1579	1579	
5°	1581	1576	1569	1580	1577	150
15°	1528	1525	1514	1525	1519	431
25°	1405	1400	1391	1397	1392	646
35°	1188	1180	1166	1156	1140	740
45°	867	870	834	715	665	668
55°	544	519	451	403	403	490
65°	305	253	219	234	242	305
75°	162	145	120	158	166	175
85°	63	60	54	70	75	68
90°	0	0	0	0	0	



TEST NUMBER: P291018

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1579.1	1579.1	1579.1	1579.1	1579.1
2.5°	1584.7	1579.9	1572.7	1582.3	1581.5
5°	1580.7	1575.9	1568.7	1579.9	1576.7
7.5°	1573.5	1569.5	1562.3	1572.7	1569.5
10°	1560.7	1557.5	1551.1	1559.9	1555.1
12.5°	1547.1	1544.7	1536.7	1544.7	1539.9
15°	1527.9	1524.7	1514.3	1524.7	1519.1
17.5°	1503.9	1499.9	1491.1	1499.9	1495.1
20°	1475.9	1471.1	1462.3	1471.1	1466.3
22.5°	1442.2	1438.2	1430.2	1438.2	1431.8
25°	1404.6	1399.8	1391.0	1397.4	1391.8
27.5°	1361.4	1355.0	1347.0	1351.8	1348.6
30°	1309.4	1301.4	1295.8	1295.8	1290.2
32.5°	1252.6	1247.0	1237.4	1231.8	1224.6
35°	1187.7	1179.7	1166.1	1155.7	1139.7
37.5°	1118.1	1108.5	1091.7	1065.3	1043.7
40°	1039.7	1027.7	1013.3	961.2	922.0
42.5°	955.6	953.2	928.4	839.6	785.2
45°	866.8	870.0	834.0	714.7	665.1
47.5°	777.1	788.4	722.7	605.9	580.3
50°	698.7	702.7	615.5	525.8	511.4
52.5°	617.9	611.5	525.0	462.6	452.2
55°	544.2	518.6	450.6	403.4	402.6
57.5°	479.4	432.2	385.0	349.8	353.8
60°	411.4	358.6	323.3	304.1	309.7
62.5°	351.4	300.9	269.7	264.1	273.7
65°	304.9	252.9	219.3	233.7	241.7
67.5°	260.9	216.9	178.5	212.9	216.1
70°	220.1	188.1	150.5	196.1	196.9
72.5°	186.5	166.5	130.5	177.7	180.1
75°	162.5	144.9	120.1	158.5	166.5
77.5°	142.5	124.1	111.3	136.9	150.5
80°	120.9	100.0	101.6	114.5	128.1
82.5°	92.8	77.6	80.8	94.4	104.0
85°	63.2	60.0	54.4	70.4	75.2
87.5°	33.6	32.0	28.0	40.0	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)