

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: P291013

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291013
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3228.0 lumens
Efficiency: N/A
Efficacy: 125.3 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

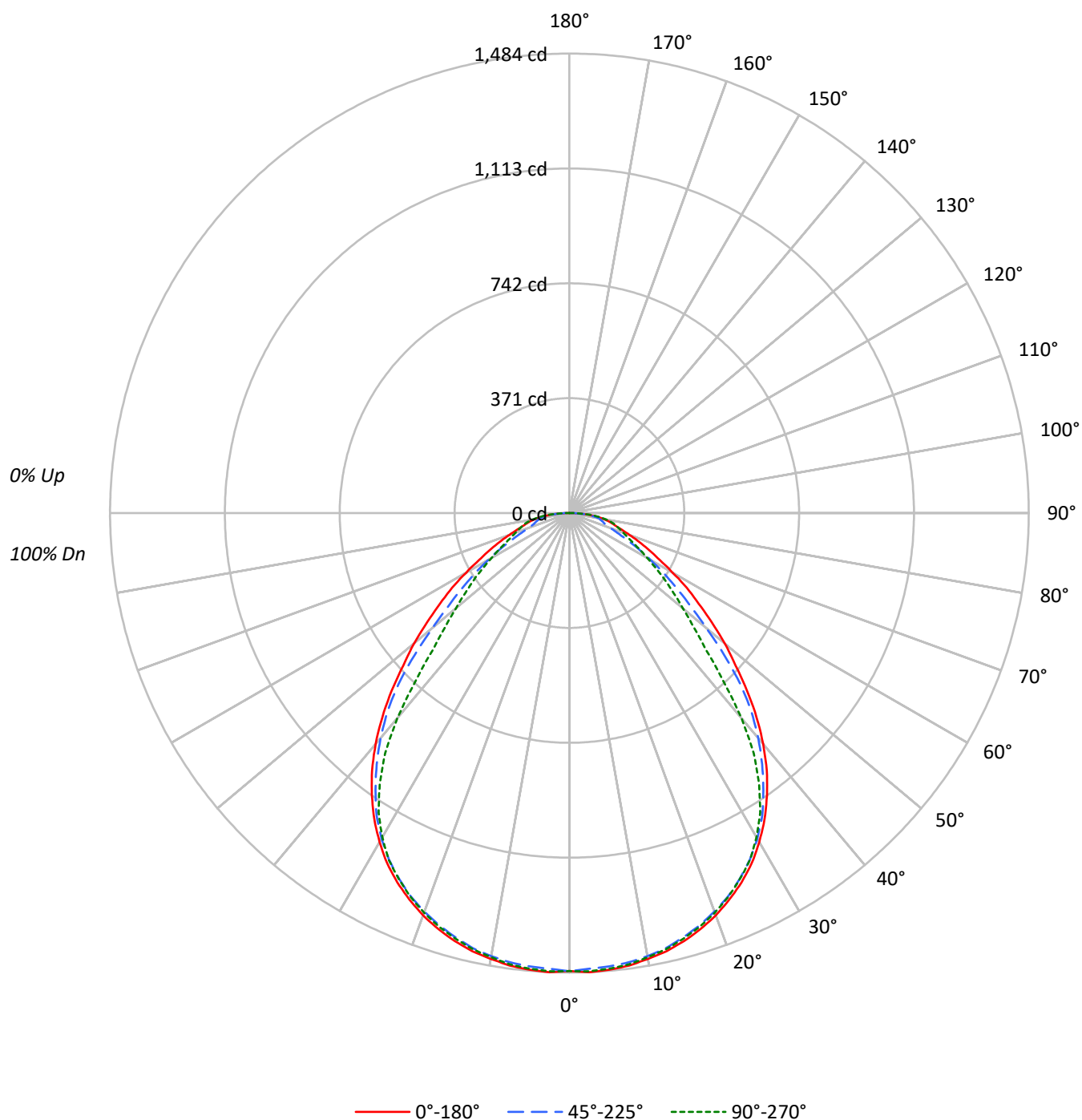
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3980	3980	3980
5°	4000	3969	3990
10°	3995	3970	3980
15°	3987	3952	3964
20°	3959	3923	3933
25°	3907	3869	3871
30°	3811	3772	3755
35°	3655	3589	3507
40°	3421	3334	3034
45°	3090	2973	2371
50°	2740	2413	2006
55°	2392	1980	1769
60°	2074	1630	1561
65°	1819	1308	1442
70°	1622	1109	1451
75°	1582	1170	1621
80°	1754	1475	1860
85°	1828	1575	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	4.3
10°-20°	402.0	12.5
20°-30°	601.4	18.6
30°-40°	678.9	21.0
40°-50°	576.0	17.8
50°-60°	389.7	12.1
60°-70°	232.6	7.2
70°-80°	145.7	4.5
80°-90°	61.3	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°	1143.8	35.4
0°-40°	1822.8	56.5
0°-60°	2788.4	86.4
0°-90°	3228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1481	1476	1470	1480	1477	141
15°	1431	1428	1418	1428	1423	404
25°	1316	1311	1303	1309	1304	605
35°	1113	1105	1092	1083	1068	693
45°	812	815	781	670	623	626
55°	510	486	422	378	377	459
65°	286	237	205	219	226	285
75°	152	136	112	148	156	164
85°	59	56	51	66	70	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.2	1479.2	1479.2	1479.2	1479.2
2.5°	1484.5	1480.0	1473.2	1482.2	1481.5
5°	1480.7	1476.2	1469.5	1480.0	1477.0
7.5°	1474.0	1470.2	1463.5	1473.2	1470.2
10°	1462.0	1459.0	1453.0	1461.2	1456.7
12.5°	1449.2	1447.0	1439.5	1447.0	1442.5
15°	1431.2	1428.2	1418.5	1428.2	1423.0
17.5°	1408.7	1405.0	1396.7	1405.0	1400.5
20°	1382.5	1378.0	1369.8	1378.0	1373.5
22.5°	1351.0	1347.3	1339.8	1347.3	1341.3
25°	1315.8	1311.3	1303.0	1309.0	1303.8
27.5°	1275.3	1269.3	1261.8	1266.3	1263.3
30°	1226.6	1219.1	1213.8	1213.8	1208.6
32.5°	1173.3	1168.1	1159.1	1153.8	1147.1
35°	1112.6	1105.1	1092.4	1082.6	1067.6
37.5°	1047.4	1038.4	1022.6	997.9	977.6
40°	973.9	962.7	949.2	900.4	863.7
42.5°	895.2	892.9	869.7	786.5	735.5
45°	812.0	815.0	781.2	669.5	623.0
47.5°	728.0	738.5	677.0	567.5	543.6
50°	654.5	658.3	576.5	492.6	479.1
52.5°	578.8	572.8	491.8	433.3	423.6
55°	509.8	485.8	422.1	377.9	377.1
57.5°	449.1	404.9	360.6	327.6	331.4
60°	385.4	335.9	302.9	284.9	290.1
62.5°	329.1	281.9	252.7	247.4	256.4
65°	285.6	236.9	205.4	218.9	226.4
67.5°	244.4	203.2	167.2	199.4	202.4
70°	206.2	176.2	140.9	183.7	184.4
72.5°	174.7	155.9	122.2	166.4	168.7
75°	152.2	135.7	112.5	148.4	155.9
77.5°	133.5	116.2	104.2	128.2	140.9
80°	113.2	93.7	95.2	107.2	120.0
82.5°	87.0	72.7	75.7	88.5	97.5
85°	59.2	56.2	51.0	66.0	70.5
87.5°	31.5	30.0	26.2	37.5	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)