

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: P291116

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291116
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3116.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

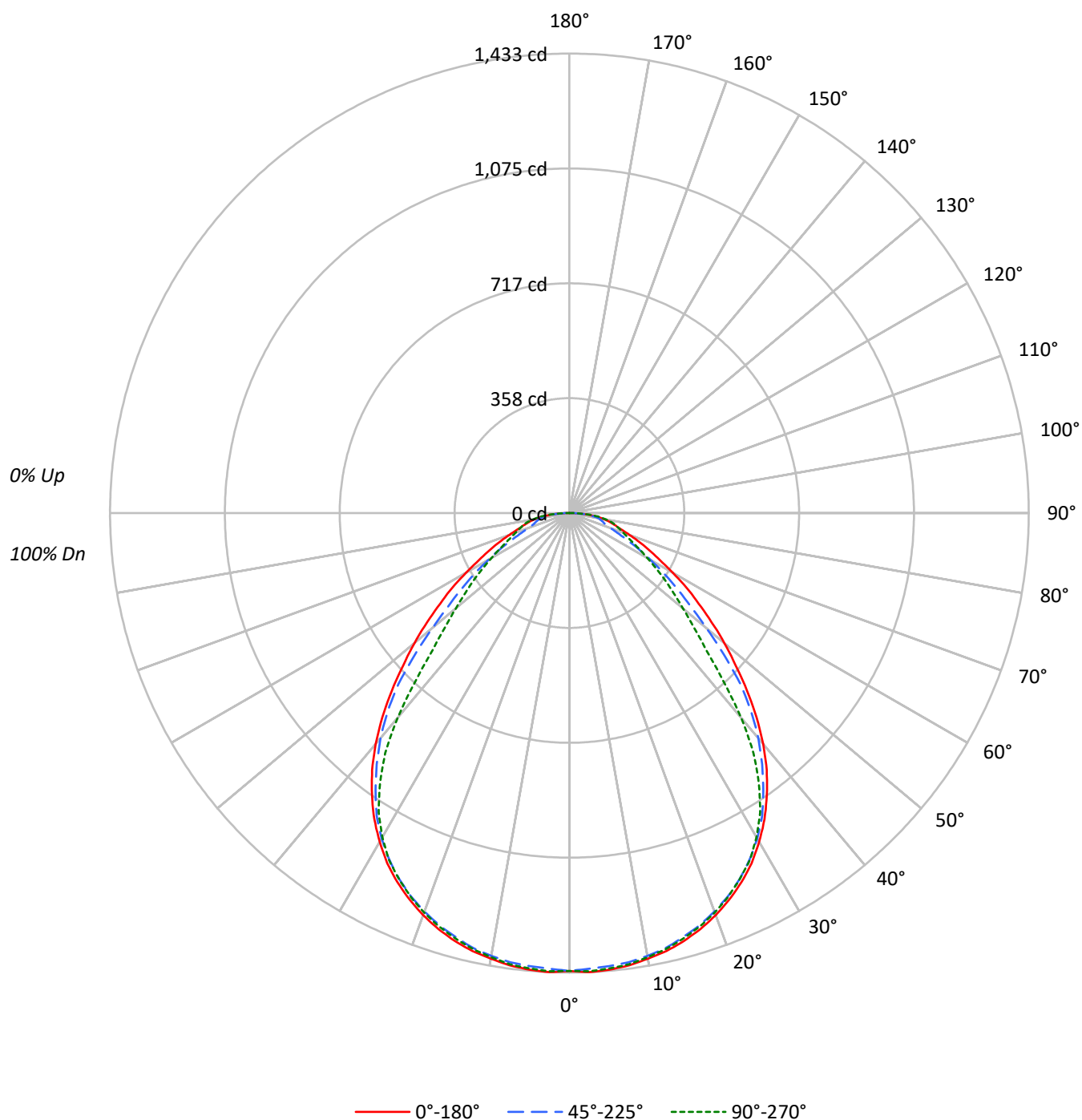
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	3842	3842	3842
5°	3861	3832	3851
10°	3856	3833	3842
15°	3849	3815	3827
20°	3822	3786	3797
25°	3771	3735	3737
30°	3679	3641	3625
35°	3528	3464	3386
40°	3302	3218	2929
45°	2983	2870	2289
50°	2645	2330	1936
55°	2309	1912	1708
60°	2002	1574	1507
65°	1755	1263	1392
70°	1566	1071	1400
75°	1527	1129	1565
80°	1694	1424	1795
85°	1766	1519	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	4.3
10°-20°	388.1	12.5
20°-30°	580.6	18.6
30°-40°	655.4	21.0
40°-50°	556.0	17.8
50°-60°	376.2	12.1
60°-70°	224.5	7.2
70°-80°	140.6	4.5
80°-90°	59.2	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°	1104.1	35.4
0°-40°	1759.5	56.5
0°-60°	2691.7	86.4
0°-90°	3116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1429	1425	1418	1429	1426	136
15°	1382	1379	1369	1379	1374	390
25°	1270	1266	1258	1264	1258	584
35°	1074	1067	1054	1045	1031	669
45°	784	787	754	646	601	604
55°	492	469	408	365	364	443
65°	276	229	198	211	219	276
75°	147	131	109	143	150	158
85°	57	54	49	64	68	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.9	1427.9	1427.9	1427.9	1427.9
2.5°	1433.0	1428.6	1422.1	1430.8	1430.1
5°	1429.3	1425.0	1418.5	1428.6	1425.7
7.5°	1422.8	1419.2	1412.7	1422.1	1419.2
10°	1411.2	1408.3	1402.6	1410.5	1406.2
12.5°	1398.9	1396.8	1389.5	1396.8	1392.4
15°	1381.6	1378.7	1369.3	1378.7	1373.6
17.5°	1359.9	1356.2	1348.3	1356.2	1351.9
20°	1334.5	1330.2	1322.2	1330.2	1325.8
22.5°	1304.1	1300.5	1293.3	1300.5	1294.7
25°	1270.1	1265.8	1257.8	1263.6	1258.5
27.5°	1231.0	1225.2	1218.0	1222.4	1219.5
30°	1184.0	1176.8	1171.7	1171.7	1166.6
32.5°	1132.6	1127.5	1118.9	1113.8	1107.3
35°	1074.0	1066.8	1054.5	1045.0	1030.6
37.5°	1011.0	1002.3	987.1	963.3	943.7
40°	940.1	929.2	916.2	869.2	833.7
42.5°	864.1	861.9	839.5	759.2	710.0
45°	783.8	786.7	754.1	646.3	601.4
47.5°	702.7	712.9	653.5	547.9	524.7
50°	631.8	635.4	556.5	475.5	462.5
52.5°	558.7	552.9	474.8	418.3	408.9
55°	492.1	469.0	407.5	364.8	364.0
57.5°	433.5	390.8	348.1	316.3	319.9
60°	372.0	324.2	292.4	275.0	280.1
62.5°	317.7	272.1	243.9	238.8	247.5
65°	275.7	228.7	198.3	211.3	218.6
67.5°	235.9	196.1	161.4	192.5	195.4
70°	199.0	170.1	136.1	177.3	178.0
72.5°	168.6	150.5	118.0	160.7	162.8
75°	146.9	131.0	108.6	143.3	150.5
77.5°	128.8	112.2	100.6	123.8	136.1
80°	109.3	90.5	91.9	103.5	115.8
82.5°	84.0	70.2	73.1	85.4	94.1
85°	57.2	54.3	49.2	63.7	68.0
87.5°	30.4	28.9	25.3	36.2	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)