

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: P291011

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291011
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

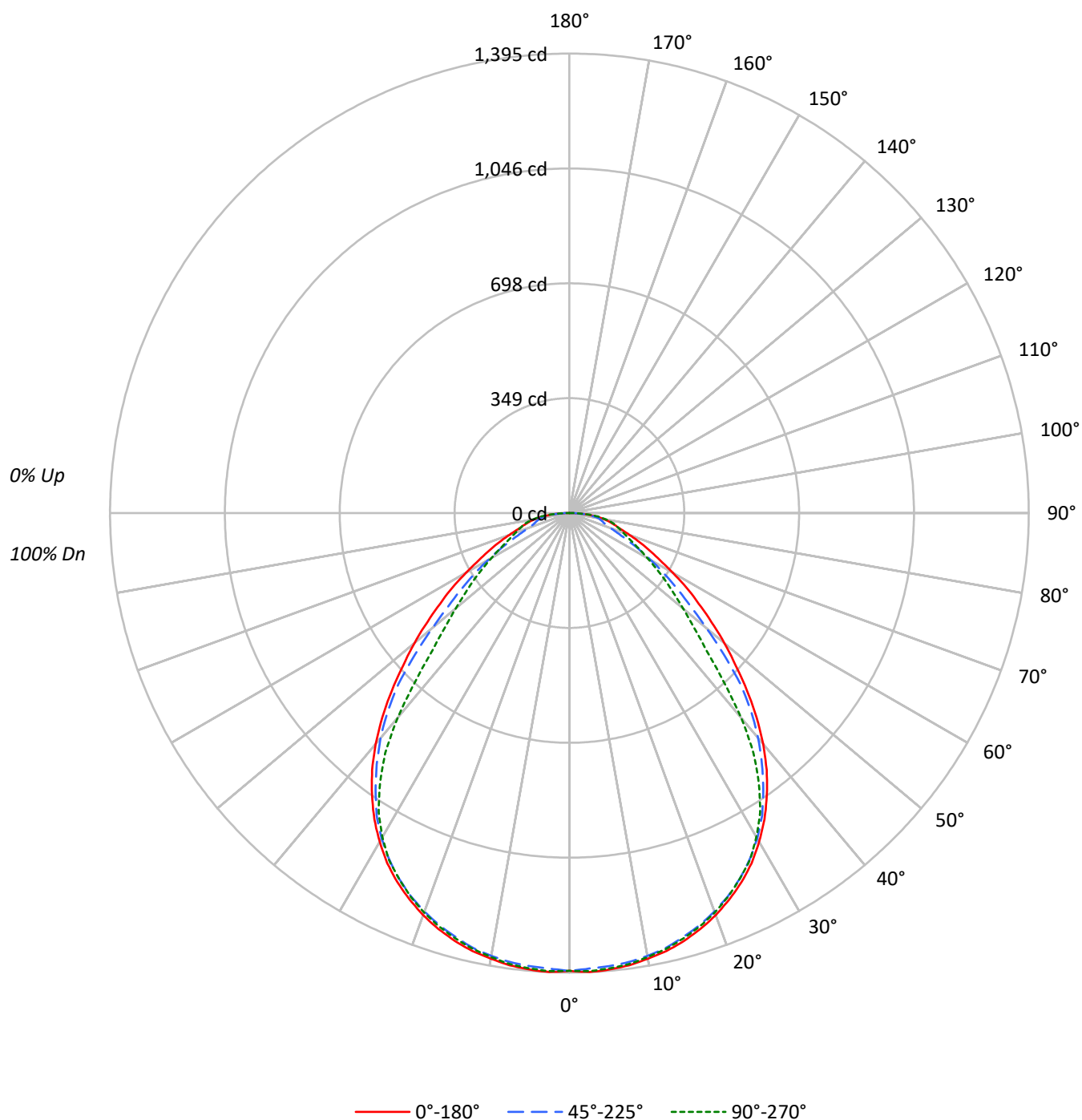
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3740	3740	3740
5°	3758	3730	3749
10°	3754	3730	3740
15°	3746	3713	3725
20°	3720	3686	3696
25°	3671	3635	3637
30°	3581	3544	3529
35°	3434	3372	3295
40°	3215	3133	2851
45°	2903	2793	2228
50°	2575	2268	1884
55°	2247	1861	1662
60°	1949	1532	1467
65°	1709	1229	1354
70°	1524	1042	1364
75°	1487	1099	1523
80°	1649	1387	1746
85°	1720	1479	2044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.3
10°-20°	377.8	12.5
20°-30°	565.1	18.6
30°-40°	637.9	21.0
40°-50°	541.2	17.8
50°-60°	366.2	12.1
60°-70°	218.6	7.2
70°-80°	136.9	4.5
80°-90°	57.6	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°	1074.7	35.4
0°-40°	1712.7	56.5
0°-60°	2620.0	86.4
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1391	1387	1381	1391	1388	132
15°	1345	1342	1333	1342	1337	379
25°	1236	1232	1224	1230	1225	568
35°	1045	1038	1026	1017	1003	651
45°	763	766	734	629	585	588
55°	479	456	397	355	354	431
65°	268	223	193	206	213	268
75°	143	128	106	140	146	154
85°	56	53	48	62	66	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.9	1389.9	1389.9	1389.9	1389.9
2.5°	1394.8	1390.6	1384.2	1392.7	1392.0
5°	1391.3	1387.0	1380.7	1390.6	1387.7
7.5°	1384.9	1381.4	1375.1	1384.2	1381.4
10°	1373.7	1370.8	1365.2	1372.9	1368.7
12.5°	1361.7	1359.6	1352.5	1359.6	1355.3
15°	1344.8	1342.0	1332.8	1342.0	1337.0
17.5°	1323.6	1320.1	1312.4	1320.1	1315.9
20°	1299.0	1294.8	1287.0	1294.8	1290.5
22.5°	1269.4	1265.9	1258.8	1265.9	1260.2
25°	1236.3	1232.1	1224.3	1229.9	1225.0
27.5°	1198.2	1192.6	1185.6	1189.8	1187.0
30°	1152.5	1145.4	1140.5	1140.5	1135.6
32.5°	1102.4	1097.5	1089.1	1084.1	1077.8
35°	1045.4	1038.3	1026.4	1017.2	1003.1
37.5°	984.1	975.6	960.9	937.6	918.6
40°	915.1	904.5	891.8	846.0	811.5
42.5°	841.1	839.0	817.1	739.0	691.1
45°	762.9	765.7	734.0	629.1	585.4
47.5°	684.0	693.9	636.1	533.3	510.7
50°	615.0	618.5	541.7	462.8	450.1
52.5°	543.8	538.2	462.1	407.2	398.0
55°	479.0	456.5	396.6	355.0	354.3
57.5°	422.0	380.4	338.8	307.8	311.4
60°	362.1	315.6	284.6	267.7	272.6
62.5°	309.2	264.9	237.4	232.5	240.9
65°	268.4	222.6	193.0	205.7	212.7
67.5°	229.6	190.9	157.1	187.4	190.2
70°	193.7	165.5	132.4	172.6	173.3
72.5°	164.1	146.5	114.8	156.4	158.5
75°	143.0	127.5	105.7	139.5	146.5
77.5°	125.4	109.2	97.9	120.5	132.4
80°	106.4	88.1	89.5	100.7	112.7
82.5°	81.7	68.3	71.1	83.1	91.6
85°	55.7	52.8	47.9	62.0	66.2
87.5°	29.6	28.2	24.7	35.2	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)