

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: P291115

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291115
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3103.0 lumens
Efficiency: N/A
Efficacy: 117.5 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

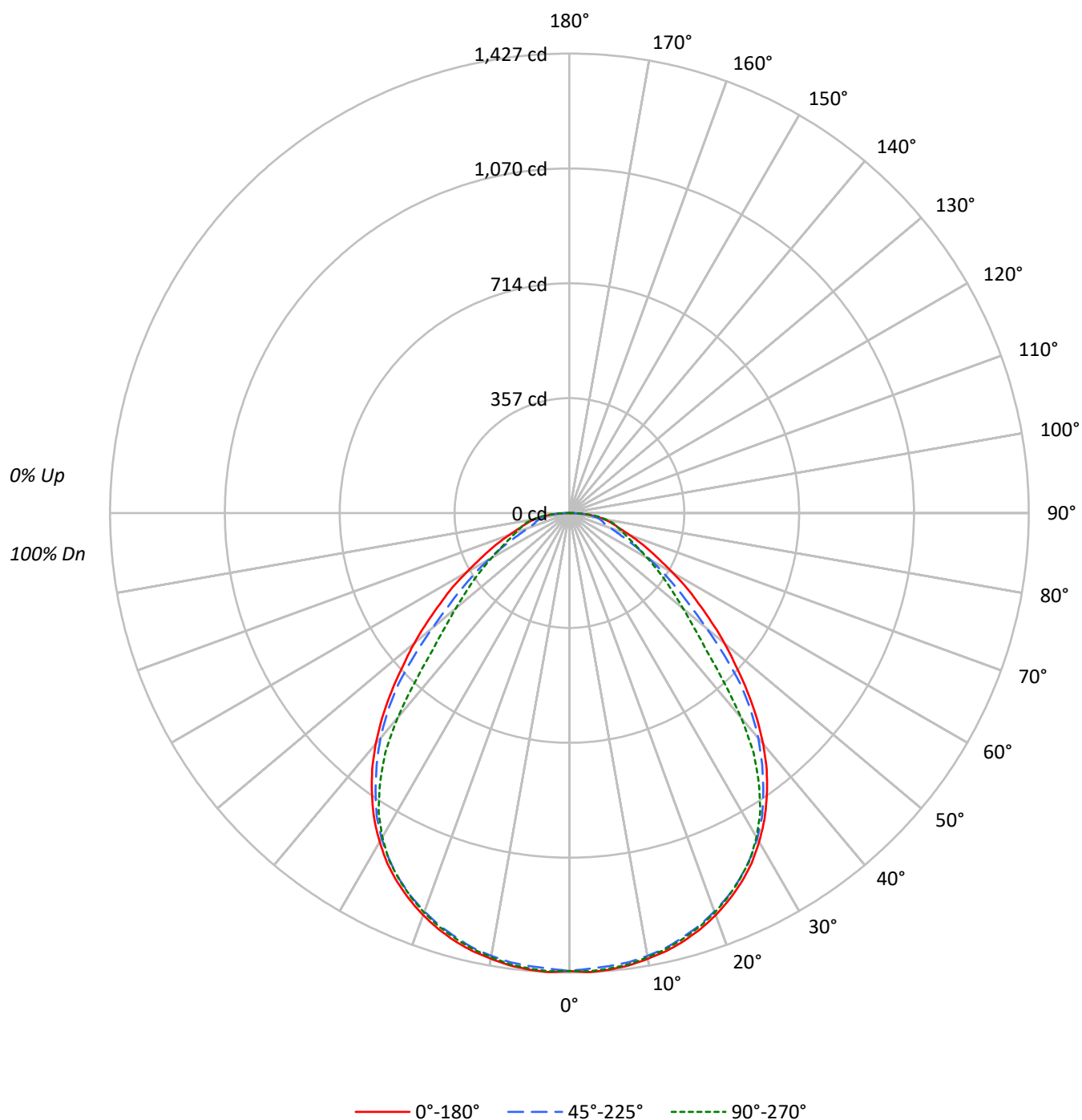
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3826	3826	3826
5°	3845	3816	3835
10°	3840	3816	3826
15°	3833	3799	3811
20°	3806	3771	3781
25°	3755	3719	3721
30°	3664	3626	3610
35°	3513	3450	3371
40°	3289	3205	2916
45°	2970	2858	2279
50°	2634	2320	1928
55°	2299	1904	1701
60°	1993	1567	1501
65°	1748	1258	1386
70°	1559	1066	1395
75°	1521	1124	1559
80°	1686	1418	1787
85°	1757	1513	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	4.3
10°-20°	386.5	12.5
20°-30°	578.1	18.6
30°-40°	652.6	21.0
40°-50°	553.7	17.8
50°-60°	374.6	12.1
60°-70°	223.6	7.2
70°-80°	140.0	4.5
80°-90°	58.9	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°	1099.5	35.4
0°-40°	1752.2	56.5
0°-60°	2680.5	86.4
0°-90°	3103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1423	1419	1413	1423	1420	135
15°	1376	1373	1364	1373	1368	388
25°	1265	1260	1253	1258	1253	582
35°	1070	1062	1050	1041	1026	666
45°	780	783	751	644	599	601
55°	490	467	406	363	362	441
65°	275	228	198	210	218	274
75°	146	130	108	143	150	157
85°	57	54	49	63	68	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.9	1421.9	1421.9	1421.9	1421.9
2.5°	1427.0	1422.7	1416.2	1424.8	1424.1
5°	1423.4	1419.0	1412.6	1422.7	1419.8
7.5°	1416.9	1413.3	1406.8	1416.2	1413.3
10°	1405.4	1402.5	1396.7	1404.6	1400.3
12.5°	1393.1	1390.9	1383.7	1390.9	1386.6
15°	1375.8	1372.9	1363.6	1372.9	1367.9
17.5°	1354.2	1350.6	1342.7	1350.6	1346.3
20°	1329.0	1324.6	1316.7	1324.6	1320.3
22.5°	1298.7	1295.1	1287.9	1295.1	1289.3
25°	1264.8	1260.5	1252.6	1258.3	1253.3
27.5°	1225.9	1220.1	1212.9	1217.3	1214.4
30°	1179.1	1171.9	1166.8	1166.8	1161.8
32.5°	1127.9	1122.8	1114.2	1109.2	1102.7
35°	1069.5	1062.3	1050.1	1040.7	1026.3
37.5°	1006.8	998.2	983.0	959.2	939.8
40°	936.2	925.4	912.4	865.6	830.2
42.5°	860.5	858.3	836.0	756.0	707.0
45°	780.5	783.4	751.0	643.6	598.9
47.5°	699.8	709.9	650.8	545.6	522.5
50°	629.2	632.8	554.2	473.5	460.5
52.5°	556.4	550.6	472.8	416.6	407.2
55°	490.1	467.0	405.8	363.2	362.5
57.5°	431.7	389.2	346.7	314.9	318.5
60°	370.4	322.9	291.2	273.9	278.9
62.5°	316.4	271.0	242.9	237.8	246.5
65°	274.6	227.7	197.5	210.4	217.7
67.5°	234.9	195.3	160.7	191.7	194.6
70°	198.2	169.4	135.5	176.6	177.3
72.5°	167.9	149.9	117.5	160.0	162.2
75°	146.3	130.4	108.1	142.7	149.9
77.5°	128.3	111.7	100.2	123.2	135.5
80°	108.8	90.1	91.5	103.1	115.3
82.5°	83.6	69.9	72.8	85.0	93.7
85°	56.9	54.1	49.0	63.4	67.7
87.5°	30.3	28.8	25.2	36.0	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)