

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: P291004

Luminaire Tested: **14GR-LD5-28-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291004
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-LD5-28-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: 2844.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

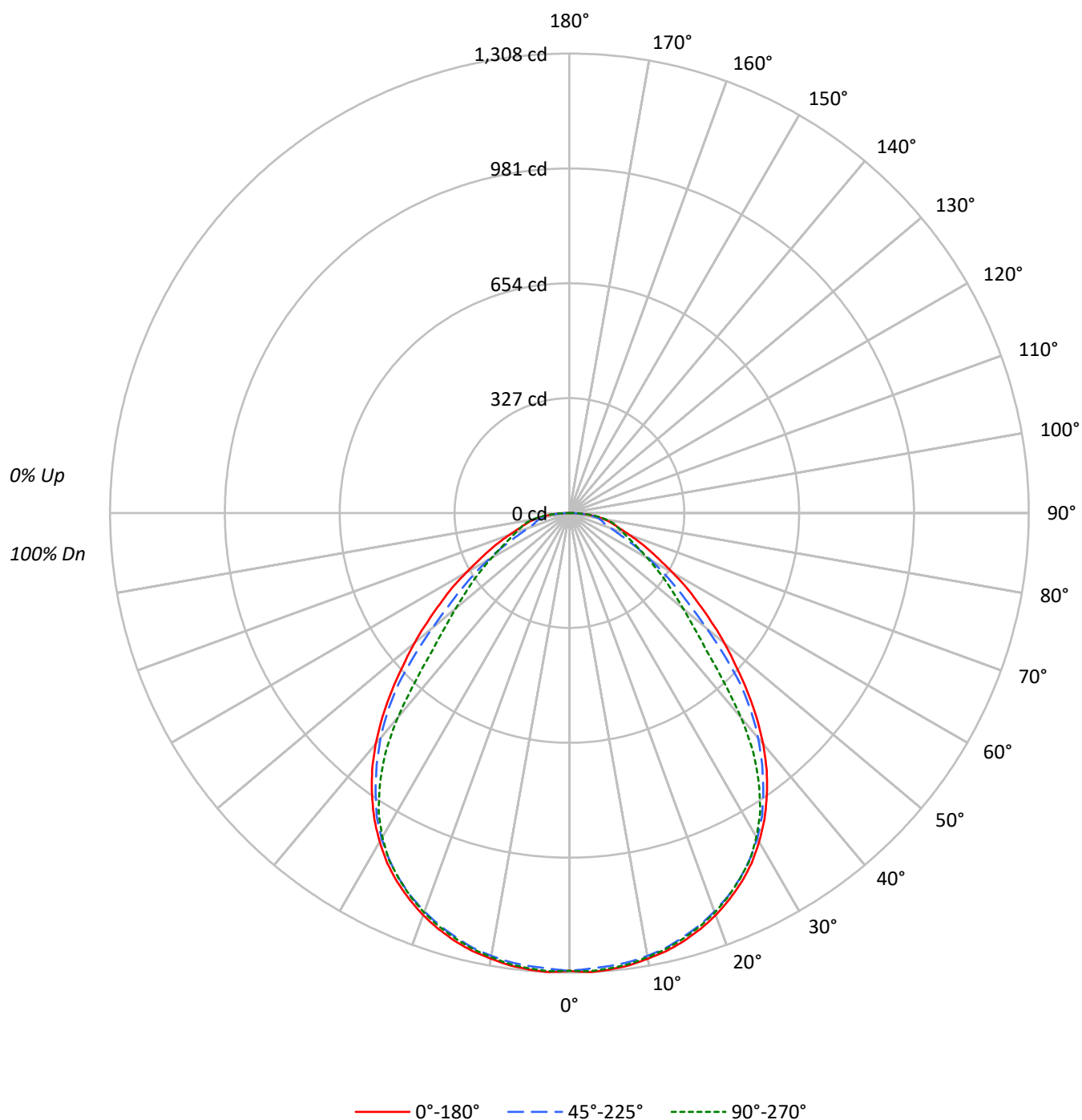
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3507	3507	3507
5°	3524	3497	3515
10°	3520	3498	3507
15°	3513	3482	3493
20°	3488	3456	3465
25°	3442	3409	3411
30°	3358	3323	3309
35°	3220	3162	3090
40°	3014	2937	2673
45°	2723	2619	2089
50°	2414	2127	1767
55°	2107	1745	1559
60°	1827	1436	1376
65°	1603	1152	1270
70°	1429	977	1279
75°	1394	1030	1429
80°	1545	1300	1638
85°	1612	1386	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	4.3
10°-20°	354.2	12.5
20°-30°	529.9	18.6
30°-40°	598.1	21.0
40°-50°	507.4	17.8
50°-60°	343.4	12.1
60°-70°	204.9	7.2
70°-80°	128.4	4.5
80°-90°	54.0	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°	1007.8	35.4
0°-40°	1605.9	56.5
0°-60°	2456.7	86.4
0°-90°	2844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1305	1301	1295	1304	1301	124
15°	1261	1258	1250	1258	1254	356
25°	1159	1155	1148	1153	1149	533
35°	980	974	962	954	941	611
45°	715	718	688	590	549	551
55°	449	428	372	333	332	405
65°	252	209	181	193	200	252
75°	134	120	99	131	137	144
85°	52	50	45	58	62	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.2	1303.2	1303.2	1303.2	1303.2
2.5°	1307.9	1303.9	1298.0	1305.9	1305.2
5°	1304.6	1300.6	1294.7	1303.9	1301.3
7.5°	1298.6	1295.3	1289.4	1298.0	1295.3
10°	1288.1	1285.4	1280.1	1287.4	1283.4
12.5°	1276.8	1274.8	1268.2	1274.8	1270.9
15°	1261.0	1258.3	1249.7	1258.3	1253.7
17.5°	1241.2	1237.9	1230.6	1237.9	1233.9
20°	1218.0	1214.1	1206.8	1214.1	1210.1
22.5°	1190.3	1187.0	1180.4	1187.0	1181.7
25°	1159.2	1155.3	1148.0	1153.3	1148.7
27.5°	1123.6	1118.3	1111.7	1115.7	1113.0
30°	1080.6	1074.0	1069.4	1069.4	1064.8
32.5°	1033.7	1029.1	1021.2	1016.6	1010.6
35°	980.2	973.6	962.4	953.8	940.6
37.5°	922.8	914.8	901.0	879.2	861.3
40°	858.0	848.1	836.2	793.3	760.9
42.5°	788.7	786.7	766.2	692.9	648.0
45°	715.4	718.0	688.3	589.9	548.9
47.5°	641.4	650.6	596.5	500.0	478.9
50°	576.7	580.0	508.0	434.0	422.1
52.5°	509.9	504.7	433.3	381.8	373.2
55°	449.2	428.0	371.9	332.9	332.3
57.5°	395.7	356.7	317.7	288.7	292.0
60°	339.5	295.9	266.9	251.0	255.6
62.5°	290.0	248.4	222.6	218.0	225.9
65°	251.7	208.7	181.0	192.9	199.5
67.5°	215.3	179.0	147.3	175.7	178.3
70°	181.6	155.2	124.2	161.8	162.5
72.5°	153.9	137.4	107.7	146.6	148.6
75°	134.1	119.6	99.1	130.8	137.4
77.5°	117.6	102.4	91.8	113.0	124.2
80°	99.7	82.6	83.9	94.5	105.7
82.5°	76.6	64.1	66.7	77.9	85.9
85°	52.2	49.5	44.9	58.1	62.1
87.5°	27.7	26.4	23.1	33.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)