

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: P290959

Luminaire Tested: **14GR-LD5-28-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290959
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2752.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

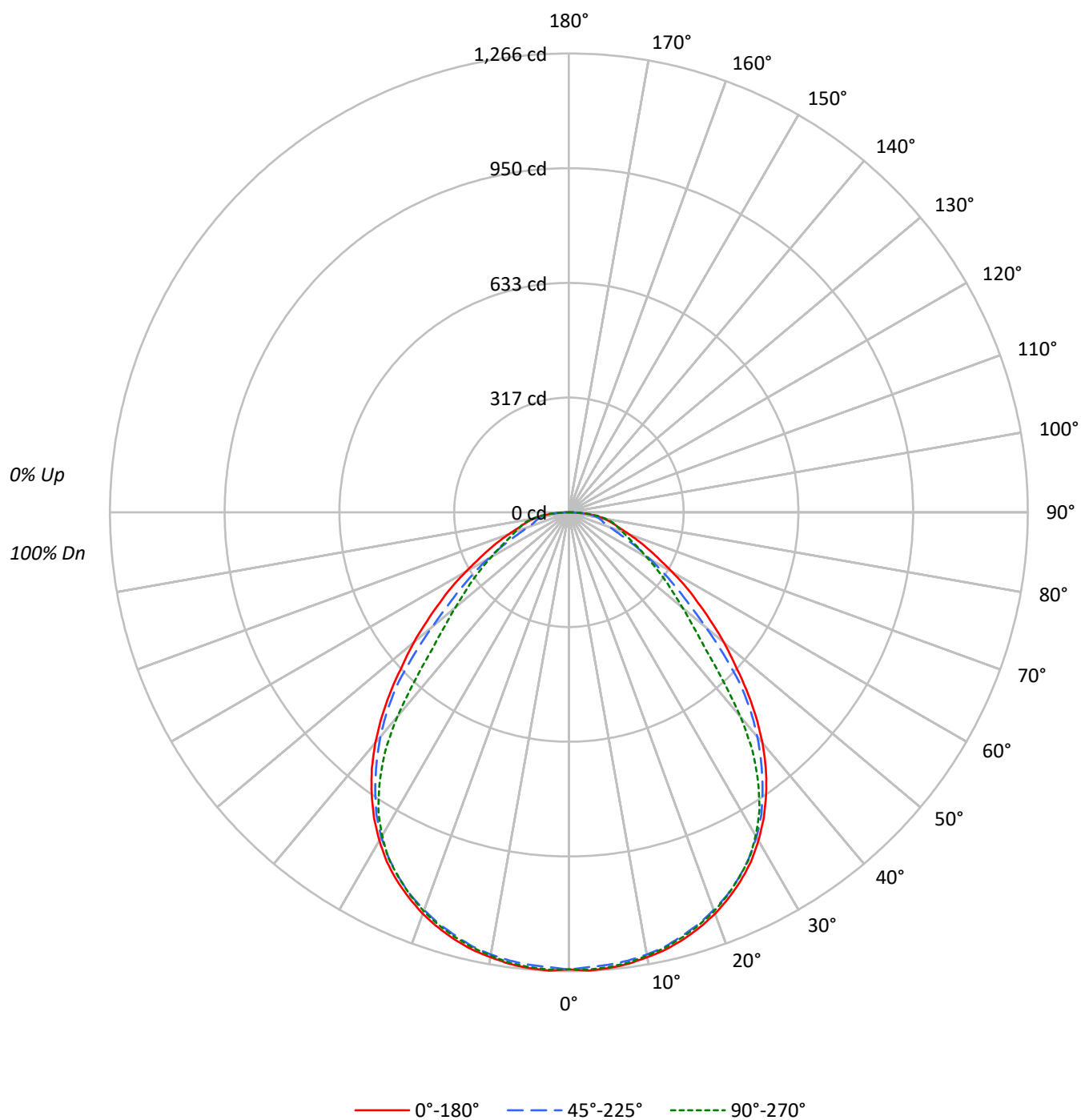
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3394	3394	3394
5°	3410	3384	3401
10°	3406	3385	3393
15°	3399	3369	3380
20°	3375	3344	3353
25°	3331	3298	3300
30°	3249	3215	3201
35°	3116	3059	2990
40°	2917	2843	2586
45°	2634	2535	2022
50°	2336	2058	1710
55°	2039	1688	1508
60°	1768	1390	1331
65°	1550	1115	1229
70°	1383	946	1237
75°	1350	997	1382
80°	1495	1258	1585
85°	1559	1343	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	4.3
10°-20°	342.8	12.5
20°-30°	512.7	18.6
30°-40°	578.8	21.0
40°-50°	491.0	17.8
50°-60°	332.2	12.1
60°-70°	198.3	7.2
70°-80°	124.2	4.5
80°-90°	52.2	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°	975.2	35.4
0°-40°	1554.0	56.5
0°-60°	2377.2	86.4
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1262	1258	1253	1262	1259	120
15°	1220	1218	1209	1218	1213	344
25°	1122	1118	1111	1116	1112	516
35°	948	942	931	923	910	591
45°	692	695	666	571	531	533
55°	435	414	360	322	322	391
65°	244	202	175	187	193	243
75°	130	116	96	127	133	140
85°	50	48	44	56	60	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.1	1261.1	1261.1	1261.1	1261.1
2.5°	1265.6	1261.7	1256.0	1263.6	1263.0
5°	1262.4	1258.5	1252.8	1261.7	1259.2
7.5°	1256.6	1253.4	1247.7	1256.0	1253.4
10°	1246.4	1243.8	1238.7	1245.7	1241.9
12.5°	1235.5	1233.6	1227.2	1233.6	1229.8
15°	1220.2	1217.6	1209.3	1217.6	1213.2
17.5°	1201.0	1197.8	1190.8	1197.8	1194.0
20°	1178.6	1174.8	1167.8	1174.8	1171.0
22.5°	1151.8	1148.6	1142.2	1148.6	1143.5
25°	1121.7	1117.9	1110.9	1116.0	1111.5
27.5°	1087.2	1082.1	1075.7	1079.6	1077.0
30°	1045.7	1039.3	1034.8	1034.8	1030.3
32.5°	1000.3	995.8	988.2	983.7	977.9
35°	948.5	942.1	931.3	923.0	910.2
37.5°	892.9	885.3	871.8	850.7	833.5
40°	830.3	820.7	809.2	767.6	736.3
42.5°	763.2	761.3	741.4	670.5	627.0
45°	692.2	694.8	666.0	570.8	531.2
47.5°	620.6	629.6	577.2	483.9	463.4
50°	558.0	561.2	491.5	419.9	408.4
52.5°	493.4	488.3	419.3	369.4	361.1
55°	434.6	414.2	359.9	322.1	321.5
57.5°	382.9	345.2	307.4	279.3	282.5
60°	328.5	286.3	258.2	242.9	247.4
62.5°	280.6	240.3	215.4	210.9	218.6
65°	243.5	202.0	175.1	186.6	193.0
67.5°	208.4	173.2	142.5	170.0	172.6
70°	175.8	150.2	120.2	156.6	157.2
72.5°	148.9	132.9	104.2	141.9	143.8
75°	129.8	115.7	95.9	126.6	132.9
77.5°	113.8	99.1	88.8	109.3	120.2
80°	96.5	79.9	81.2	91.4	102.3
82.5°	74.1	62.0	64.6	75.4	83.1
85°	50.5	47.9	43.5	56.2	60.1
87.5°	26.8	25.6	22.4	32.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)