

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: P291156

Luminaire Tested: **14GR-LD5-28-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A125-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2915.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

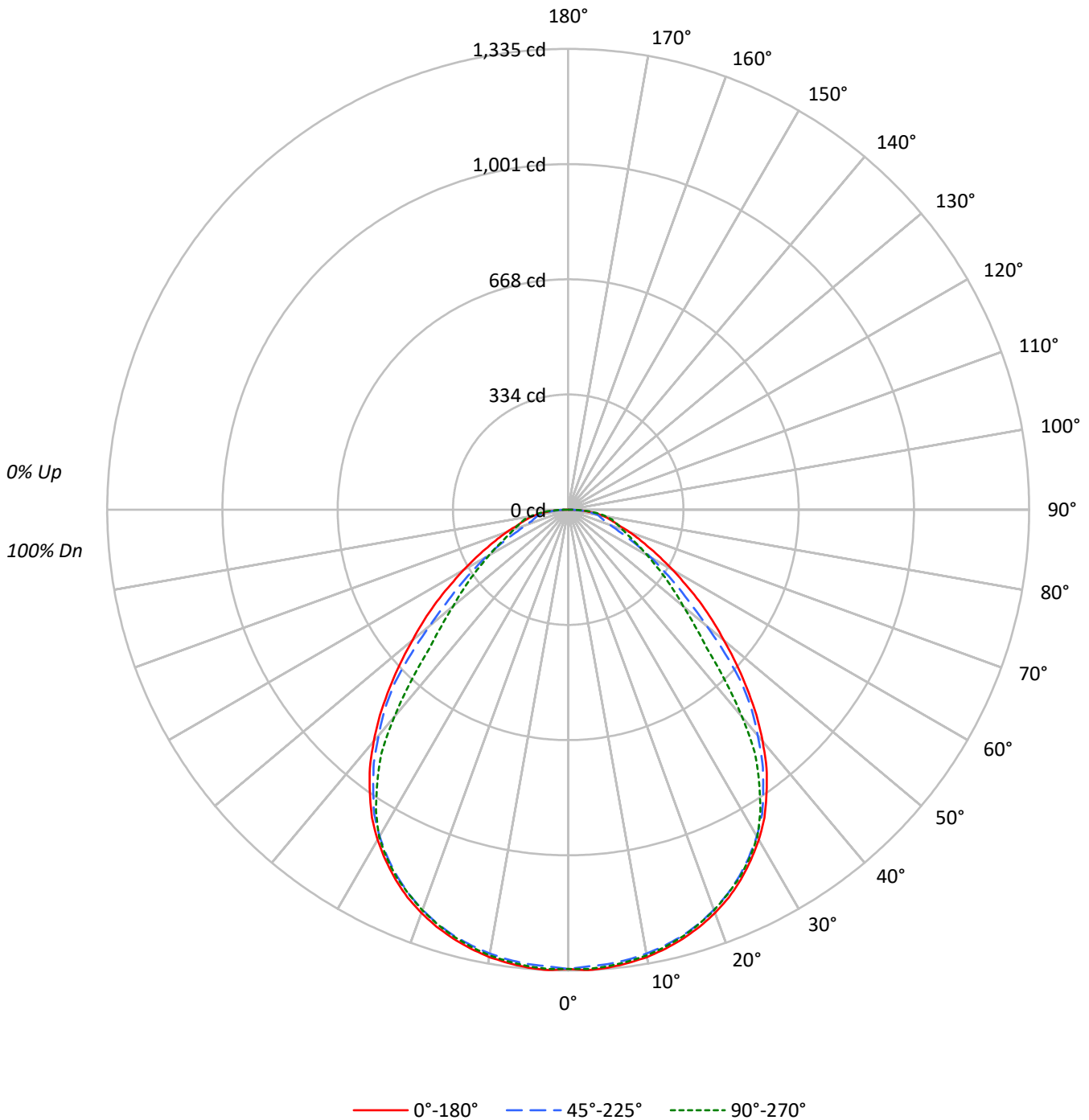
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3580	3580	3580
5°	3597	3569	3586
10°	3596	3568	3583
15°	3583	3561	3567
20°	3560	3532	3536
25°	3512	3480	3490
30°	3431	3394	3402
35°	3290	3234	3166
40°	3077	3000	2753
45°	2785	2705	2159
50°	2463	2189	1820
55°	2180	1799	1605
60°	1882	1489	1423
65°	1636	1184	1309
70°	1479	1017	1309
75°	1420	1062	1463
80°	1582	1351	1708
85°	1670	1442	2047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	4.3
10°-20°	361.6	12.4
20°-30°	541.2	18.6
30°-40°	612.6	21.0
40°-50°	521.8	17.9
50°-60°	353.3	12.1
60°-70°	210.9	7.2
70°-80°	131.8	4.5
80°-90°	55.7	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°	1028.9	35.3
0°-40°	1641.5	56.3
0°-60°	2516.6	86.3
0°-90°	2915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1332	1328	1321	1330	1328	127
15°	1286	1282	1278	1286	1280	363
25°	1183	1179	1172	1177	1175	544
35°	1002	996	985	974	964	624
45°	732	734	711	606	567	564
55°	465	439	383	342	342	415
65°	257	214	186	199	206	259
75°	137	122	102	134	141	148
85°	54	50	47	59	66	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1334.9	1331.6	1324.1	1332.9	1331.6
5°	1331.6	1328.2	1321.4	1329.5	1327.5
7.5°	1324.8	1321.4	1315.3	1323.4	1320.1
10°	1316.0	1311.9	1305.9	1314.7	1311.3
12.5°	1302.5	1298.4	1293.0	1301.8	1297.1
15°	1286.2	1281.5	1278.1	1286.2	1280.2
17.5°	1266.6	1262.6	1257.8	1266.0	1259.2
20°	1243.0	1239.6	1233.5	1238.2	1234.9
22.5°	1215.9	1211.2	1205.1	1210.5	1205.8
25°	1182.8	1179.4	1172.0	1177.4	1175.3
27.5°	1144.9	1142.9	1134.1	1140.9	1137.5
30°	1104.3	1098.9	1092.2	1094.2	1094.9
32.5°	1057.7	1050.9	1045.5	1040.8	1036.0
35°	1001.5	995.5	984.6	974.5	963.7
37.5°	943.4	935.3	924.4	902.1	888.6
40°	875.8	871.7	854.1	823.0	783.8
42.5°	806.8	802.7	787.2	717.5	674.9
45°	731.7	733.7	710.8	605.9	567.4
47.5°	660.0	665.4	615.4	517.3	497.1
50°	588.3	594.4	522.8	447.0	434.8
52.5°	525.5	520.7	445.7	392.2	386.8
55°	464.6	438.9	383.4	342.2	342.2
57.5°	402.4	365.9	326.0	299.6	299.6
60°	349.6	304.3	276.6	259.0	264.4
62.5°	300.9	252.9	229.3	225.9	232.6
65°	257.0	214.4	186.0	198.8	205.6
67.5°	221.1	183.3	152.8	179.9	183.9
70°	188.0	159.6	129.2	165.7	166.4
72.5°	157.6	140.7	110.9	150.1	152.8
75°	136.6	122.4	102.1	133.9	140.7
77.5°	119.7	104.8	94.0	115.6	128.5
80°	102.1	85.9	87.2	97.4	110.2
82.5°	78.4	66.3	69.0	79.8	89.9
85°	54.1	50.0	46.7	58.8	66.3
87.5°	29.1	27.1	23.7	33.1	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)