

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: P291323

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291323
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-LD5-40-A125-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.0 lumens
Efficiency: N/A
Efficacy: 96.6 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

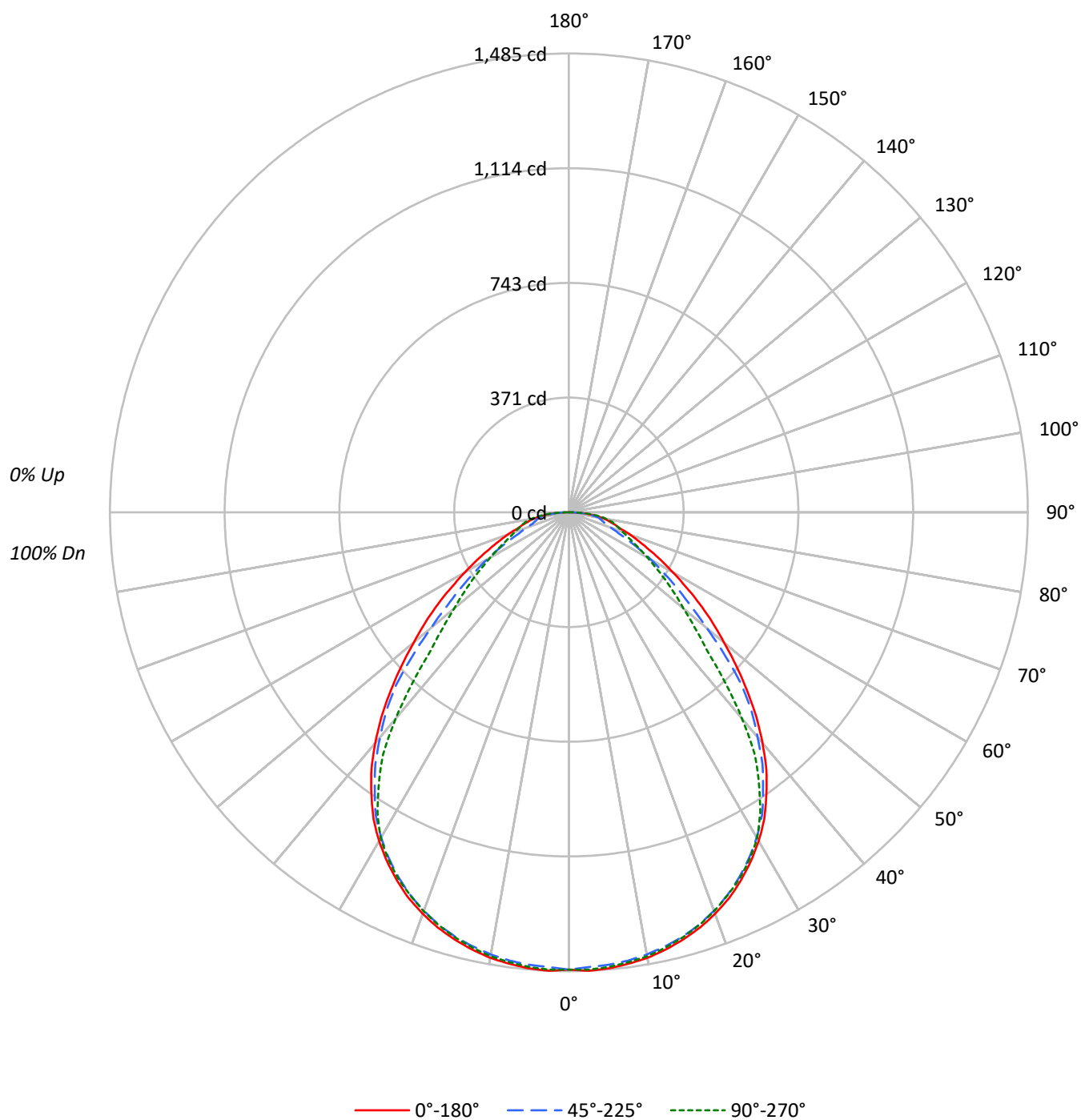
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3982	3982	3982
5°	4002	3971	3989
10°	4001	3970	3986
15°	3987	3962	3968
20°	3960	3930	3934
25°	3907	3871	3882
30°	3818	3776	3785
35°	3660	3598	3522
40°	3423	3338	3063
45°	3098	3009	2402
50°	2740	2435	2025
55°	2425	2001	1786
60°	2094	1656	1583
65°	1820	1317	1456
70°	1646	1131	1456
75°	1580	1181	1627
80°	1760	1505	1900
85°	1859	1602	2276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	4.3
10°-20°	402.3	12.4
20°-30°	602.0	18.6
30°-40°	681.5	21.0
40°-50°	580.5	17.9
50°-60°	393.1	12.1
60°-70°	234.7	7.2
70°-80°	146.6	4.5
80°-90°	62.0	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°	1144.7	35.3
0°-40°	1826.2	56.3
0°-60°	2799.8	86.3
0°-90°	3243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1481	1478	1470	1479	1477	141
15°	1431	1426	1422	1431	1424	404
25°	1316	1312	1304	1310	1308	605
35°	1114	1108	1095	1084	1072	694
45°	814	816	791	674	631	628
55°	517	488	427	381	381	462
65°	286	238	207	221	229	288
75°	152	136	114	149	156	164
85°	60	56	52	66	74	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1485.1	1481.4	1473.1	1482.9	1481.4
5°	1481.4	1477.6	1470.1	1479.1	1476.9
7.5°	1473.9	1470.1	1463.3	1472.4	1468.6
10°	1464.1	1459.6	1452.8	1462.6	1458.8
12.5°	1449.0	1444.5	1438.5	1448.3	1443.0
15°	1431.0	1425.7	1422.0	1431.0	1424.2
17.5°	1409.2	1404.6	1399.4	1408.4	1400.9
20°	1382.8	1379.1	1372.3	1377.6	1373.8
22.5°	1352.7	1347.5	1340.7	1346.7	1341.4
25°	1315.9	1312.1	1303.8	1309.9	1307.6
27.5°	1273.7	1271.5	1261.7	1269.2	1265.5
30°	1228.6	1222.6	1215.1	1217.3	1218.1
32.5°	1176.7	1169.2	1163.1	1157.9	1152.6
35°	1114.2	1107.5	1095.4	1084.1	1072.1
37.5°	1049.5	1040.5	1028.5	1003.6	988.6
40°	974.3	969.8	950.2	915.6	872.0
42.5°	897.6	893.0	875.7	798.2	750.9
45°	814.0	816.3	790.7	674.1	631.2
47.5°	734.3	740.3	684.6	575.6	553.0
50°	654.5	661.3	581.6	497.3	483.8
52.5°	584.6	579.3	495.8	436.4	430.3
55°	516.9	488.3	426.6	380.7	380.7
57.5°	447.7	407.0	362.6	333.3	333.3
60°	389.0	338.6	307.7	288.2	294.2
62.5°	334.8	281.4	255.0	251.3	258.8
65°	285.9	238.5	206.9	221.2	228.7
67.5°	246.0	203.9	170.0	200.1	204.6
70°	209.2	177.6	143.7	184.3	185.1
72.5°	175.3	156.5	123.4	167.0	170.0
75°	152.0	136.2	113.6	149.0	156.5
77.5°	133.2	116.6	104.6	128.7	142.9
80°	113.6	95.5	97.1	108.3	122.6
82.5°	87.3	73.7	76.7	88.8	100.1
85°	60.2	55.7	51.9	65.5	73.7
87.5°	32.4	30.1	26.3	36.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)