

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: P291163

Luminaire Tested: **14GR-LD5-32-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291163
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-LD5-32-A125-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

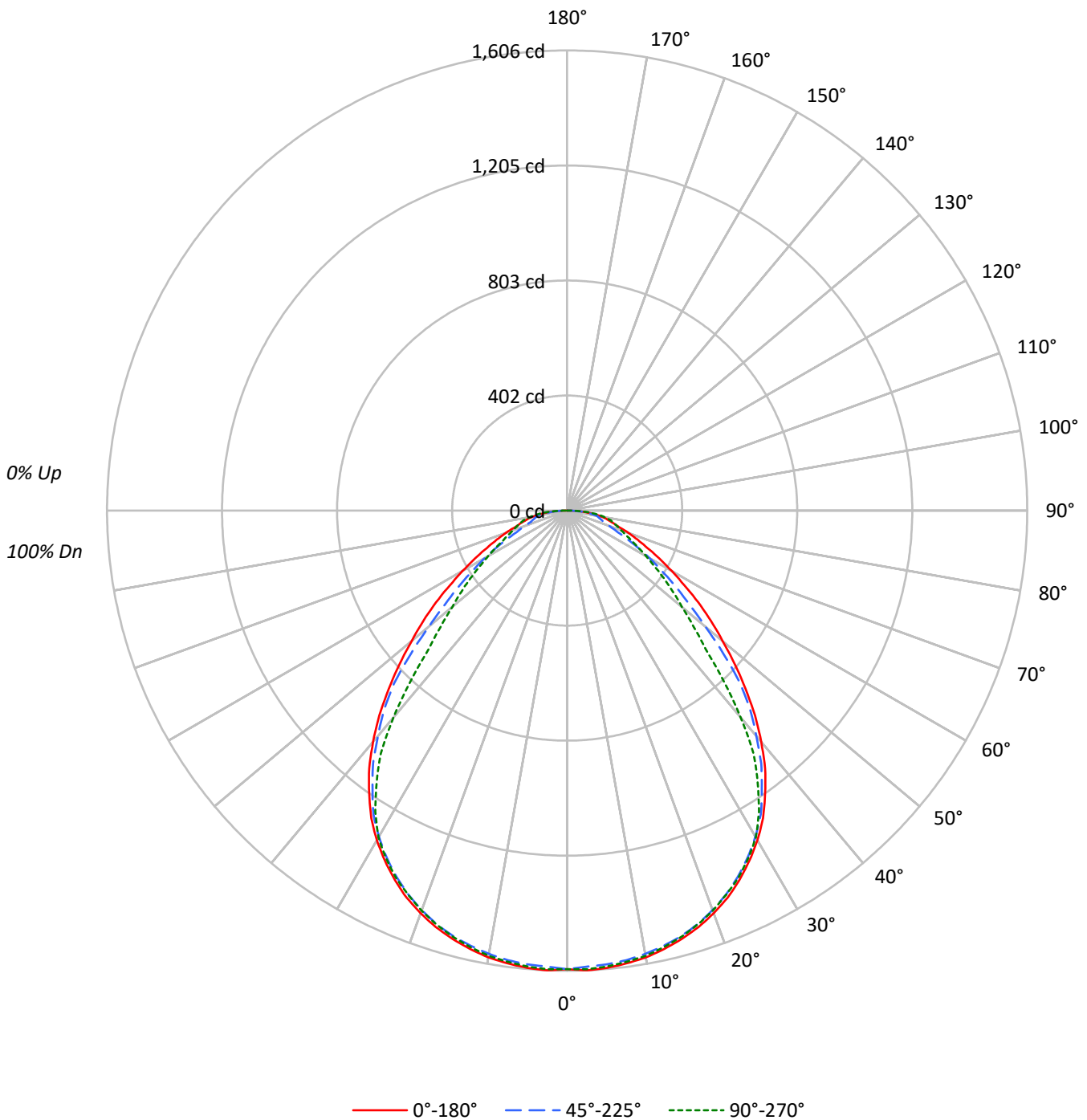
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4307	4307	4307
5°	4327	4294	4314
10°	4326	4293	4311
15°	4311	4284	4291
20°	4282	4250	4254
25°	4225	4187	4198
30°	4128	4083	4093
35°	3958	3892	3809
40°	3701	3610	3313
45°	3350	3254	2598
50°	2963	2633	2190
55°	2622	2164	1932
60°	2264	1791	1712
65°	1969	1424	1575
70°	1780	1223	1574
75°	1708	1278	1759
80°	1905	1627	2055
85°	2010	1732	2461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	4.3
10°-20°	435.0	12.4
20°-30°	651.1	18.6
30°-40°	737.0	21.0
40°-50°	627.8	17.9
50°-60°	425.0	12.1
60°-70°	253.8	7.2
70°-80°	158.5	4.5
80°-90°	67.0	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°	1237.9	35.3
0°-40°	1974.9	56.3
0°-60°	3027.7	86.3
0°-90°	3507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1602	1598	1590	1600	1597	152
15°	1548	1542	1538	1548	1540	437
25°	1423	1419	1410	1416	1414	654
35°	1205	1198	1185	1172	1159	751
45°	880	883	855	729	683	679
55°	559	528	461	412	412	500
65°	309	258	224	239	247	312
75°	164	147	123	161	169	177
85°	65	60	56	71	80	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1606.0	1602.0	1593.0	1603.6	1602.0
5°	1602.0	1597.9	1589.8	1599.5	1597.1
7.5°	1593.8	1589.8	1582.5	1592.2	1588.2
10°	1583.3	1578.4	1571.1	1581.6	1577.6
12.5°	1567.0	1562.1	1555.6	1566.2	1560.5
15°	1547.5	1541.8	1537.7	1547.5	1540.1
17.5°	1523.9	1519.0	1513.3	1523.1	1514.9
20°	1495.4	1491.3	1484.0	1489.7	1485.6
22.5°	1462.9	1457.2	1449.8	1456.3	1450.7
25°	1423.0	1418.9	1410.0	1416.5	1414.0
27.5°	1377.4	1375.0	1364.4	1372.5	1368.5
30°	1328.6	1322.1	1314.0	1316.4	1317.2
32.5°	1272.5	1264.3	1257.8	1252.1	1246.4
35°	1204.9	1197.6	1184.6	1172.4	1159.4
37.5°	1135.0	1125.2	1112.2	1085.3	1069.1
40°	1053.6	1048.7	1027.6	990.2	943.0
42.5°	970.6	965.7	947.0	863.2	812.0
45°	880.3	882.8	855.1	729.0	682.6
47.5°	794.1	800.6	740.4	622.4	598.0
50°	707.8	715.2	628.9	537.8	523.1
52.5°	632.2	626.5	536.2	471.9	465.4
55°	558.9	528.0	461.3	411.7	411.7
57.5°	484.1	440.2	392.2	360.4	360.4
60°	420.6	366.1	332.8	311.6	318.1
62.5°	362.1	304.3	275.8	271.7	279.9
65°	309.2	257.9	223.7	239.2	247.3
67.5°	266.0	220.5	183.9	216.4	221.3
70°	226.2	192.0	155.4	199.3	200.1
72.5°	189.6	169.2	133.4	180.6	183.9
75°	164.3	147.3	122.9	161.1	169.2
77.5°	144.0	126.1	113.1	139.1	154.6
80°	122.9	103.3	105.0	117.2	132.6
82.5°	94.4	79.7	83.0	96.0	108.2
85°	65.1	60.2	56.1	70.8	79.7
87.5°	35.0	32.5	28.5	39.9	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)