

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: P291260

Luminaire Tested: **14GR-LD5-32-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291260
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

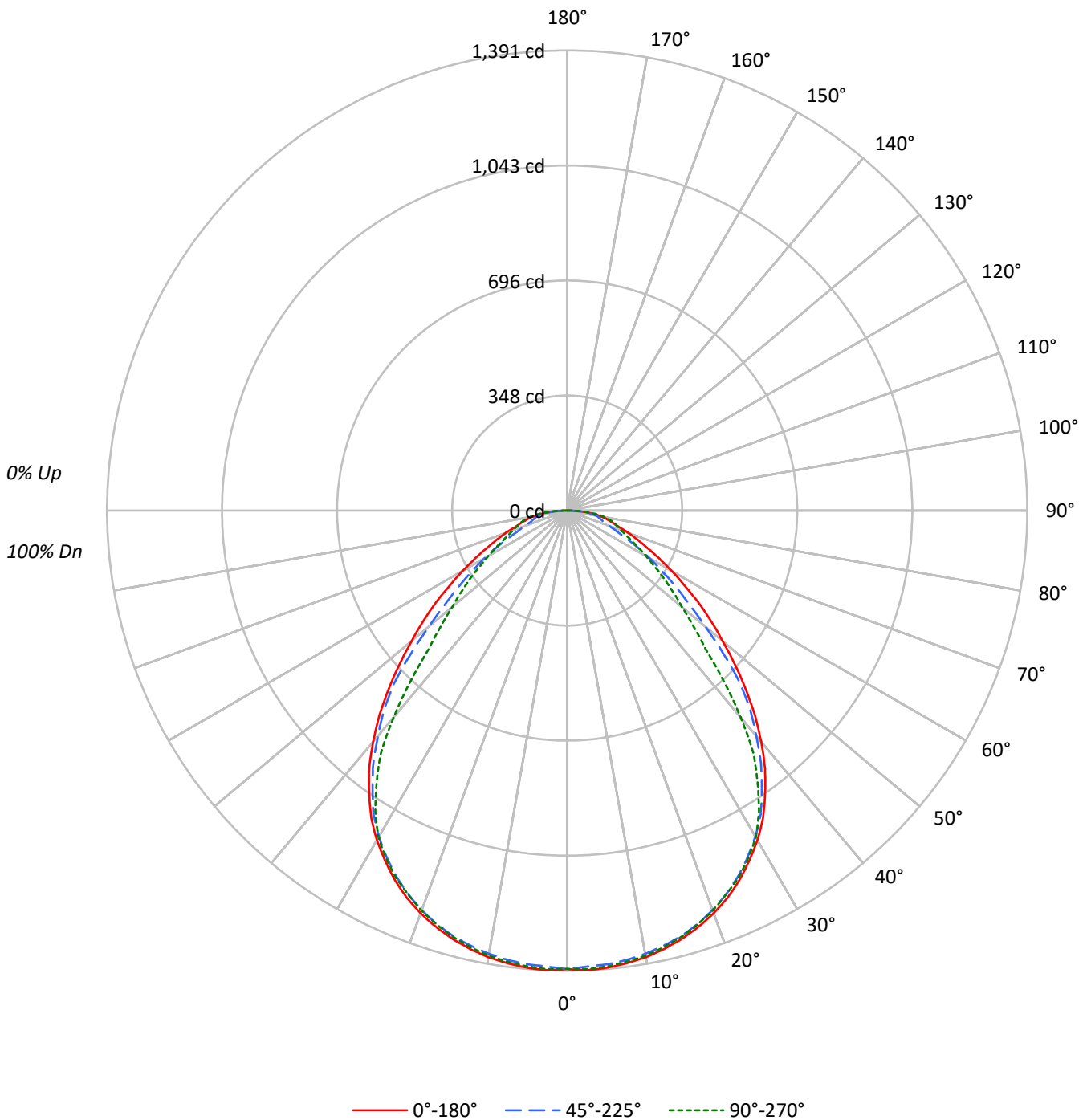
Input Watts (W): 26.319
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3729	3729	3729
5°	3747	3719	3736
10°	3747	3718	3733
15°	3733	3710	3716
20°	3708	3680	3684
25°	3659	3625	3636
30°	3575	3536	3544
35°	3428	3370	3298
40°	3205	3126	2869
45°	2901	2818	2250
50°	2566	2280	1896
55°	2271	1874	1673
60°	1961	1551	1483
65°	1705	1234	1364
70°	1541	1059	1364
75°	1480	1106	1523
80°	1649	1409	1779
85°	1741	1501	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	4.3
10°-20°	376.7	12.4
20°-30°	563.8	18.6
30°-40°	638.2	21.0
40°-50°	543.6	17.9
50°-60°	368.1	12.1
60°-70°	219.7	7.2
70°-80°	137.3	4.5
80°-90°	58.0	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°	1072.0	35.3
0°-40°	1710.2	56.3
0°-60°	2621.9	86.3
0°-90°	3037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1387	1384	1377	1385	1383	132
15°	1340	1335	1332	1340	1334	378
25°	1232	1229	1221	1227	1224	567
35°	1044	1037	1026	1015	1004	650
45°	762	764	740	631	591	588
55°	484	457	400	356	356	433
65°	268	223	194	207	214	270
75°	142	128	106	140	146	154
85°	56	52	49	61	69	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.9	1385.9	1385.9	1385.9	1385.9
2.5°	1390.8	1387.3	1379.5	1388.7	1387.3
5°	1387.3	1383.8	1376.7	1385.2	1383.1
7.5°	1380.2	1376.7	1370.4	1378.8	1375.3
10°	1371.1	1366.9	1360.5	1369.7	1366.2
12.5°	1357.0	1352.8	1347.1	1356.3	1351.4
15°	1340.1	1335.1	1331.6	1340.1	1333.7
17.5°	1319.6	1315.4	1310.5	1318.9	1311.9
20°	1295.0	1291.5	1285.1	1290.1	1286.5
22.5°	1266.8	1261.9	1255.5	1261.2	1256.2
25°	1232.3	1228.8	1221.0	1226.6	1224.5
27.5°	1192.8	1190.7	1181.6	1188.6	1185.1
30°	1150.6	1144.9	1137.9	1140.0	1140.7
32.5°	1101.9	1094.9	1089.3	1084.3	1079.4
35°	1043.5	1037.1	1025.8	1015.3	1004.0
37.5°	982.9	974.4	963.1	939.9	925.8
40°	912.4	908.2	889.9	857.5	816.6
42.5°	840.5	836.3	820.1	747.5	703.2
45°	762.3	764.5	740.5	631.3	591.1
47.5°	687.7	693.3	641.2	539.0	517.9
50°	613.0	619.3	544.6	465.7	453.0
52.5°	547.4	542.5	464.3	408.6	403.0
55°	484.0	457.3	399.5	356.5	356.5
57.5°	419.2	381.2	339.6	312.1	312.1
60°	364.3	317.1	288.2	269.8	275.5
62.5°	313.5	263.5	238.8	235.3	242.4
65°	267.7	223.3	193.8	207.1	214.2
67.5°	230.4	190.9	159.2	187.4	191.6
70°	195.9	166.3	134.6	172.6	173.3
72.5°	164.2	146.5	115.5	156.4	159.2
75°	142.3	127.5	106.4	139.5	146.5
77.5°	124.7	109.2	97.9	120.5	133.9
80°	106.4	89.5	90.9	101.5	114.8
82.5°	81.7	69.0	71.9	83.1	93.7
85°	56.4	52.1	48.6	61.3	69.0
87.5°	30.3	28.2	24.7	34.5	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)