

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: P291206

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291206
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-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3047.0 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

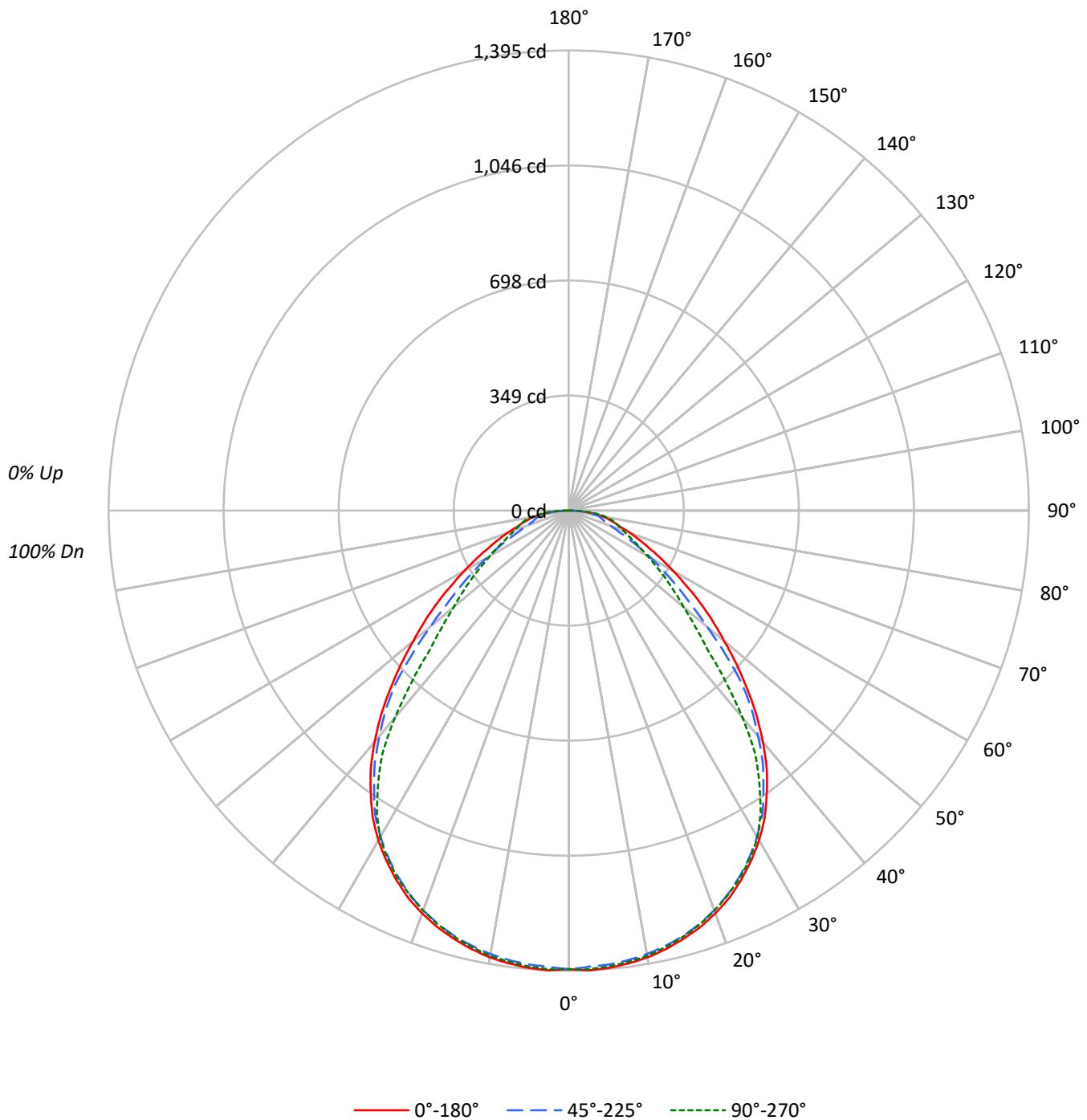
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3742	3742	3742
5°	3760	3731	3748
10°	3759	3730	3745
15°	3746	3722	3728
20°	3721	3692	3696
25°	3671	3637	3648
30°	3587	3547	3556
35°	3439	3381	3309
40°	3216	3136	2878
45°	2911	2827	2257
50°	2575	2287	1903
55°	2278	1880	1678
60°	1967	1556	1488
65°	1710	1238	1368
70°	1546	1062	1368
75°	1485	1109	1528
80°	1654	1413	1785
85°	1748	1507	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.3
10°-20°	378.0	12.4
20°-30°	565.7	18.6
30°-40°	640.3	21.0
40°-50°	545.4	17.9
50°-60°	369.3	12.1
60°-70°	220.5	7.2
70°-80°	137.7	4.5
80°-90°	58.2	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°	1075.5	35.3
0°-40°	1715.8	56.3
0°-60°	2630.5	86.3
0°-90°	3047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1392	1388	1381	1390	1388	132
15°	1344	1340	1336	1344	1338	379
25°	1236	1233	1225	1231	1229	569
35°	1047	1040	1029	1019	1007	653
45°	765	767	743	633	593	590
55°	486	459	401	358	358	434
65°	269	224	194	208	215	271
75°	143	128	107	140	147	154
85°	57	52	49	62	69	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1395.4	1391.9	1384.1	1393.3	1391.9
5°	1391.9	1388.3	1381.3	1389.7	1387.6
7.5°	1384.8	1381.3	1374.9	1383.4	1379.8
10°	1375.6	1371.4	1365.0	1374.2	1370.6
12.5°	1361.5	1357.2	1351.6	1360.8	1355.8
15°	1344.5	1339.5	1336.0	1344.5	1338.1
17.5°	1324.0	1319.8	1314.8	1323.3	1316.2
20°	1299.3	1295.7	1289.4	1294.3	1290.8
22.5°	1271.0	1266.0	1259.7	1265.3	1260.4
25°	1236.3	1232.8	1225.0	1230.7	1228.6
27.5°	1196.8	1194.6	1185.4	1192.5	1189.0
30°	1154.3	1148.7	1141.6	1143.7	1144.4
32.5°	1105.6	1098.5	1092.8	1087.9	1082.9
35°	1046.9	1040.5	1029.2	1018.6	1007.3
37.5°	986.1	977.6	966.3	943.0	928.8
40°	915.4	911.2	892.8	860.3	819.3
42.5°	843.3	839.1	822.8	750.0	705.5
45°	764.8	767.0	742.9	633.4	593.1
47.5°	689.9	695.6	643.3	540.8	519.6
50°	615.0	621.4	546.4	467.3	454.5
52.5°	549.2	544.3	465.8	410.0	404.3
55°	485.6	458.8	400.8	357.7	357.7
57.5°	420.6	382.4	340.7	313.1	313.1
60°	365.5	318.1	289.1	270.7	276.4
62.5°	314.6	264.4	239.6	236.1	243.2
65°	268.6	224.1	194.4	207.8	214.9
67.5°	231.2	191.6	159.8	188.0	192.3
70°	196.5	166.8	135.0	173.2	173.9
72.5°	164.7	147.0	115.9	156.9	159.8
75°	142.8	127.9	106.7	140.0	147.0
77.5°	125.1	109.6	98.3	120.9	134.3
80°	106.7	89.8	91.2	101.8	115.2
82.5°	82.0	69.3	72.1	83.4	94.0
85°	56.6	52.3	48.8	61.5	69.3
87.5°	30.4	28.3	24.7	34.6	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)