

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: P291211

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291211
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-L82765-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: 3361.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

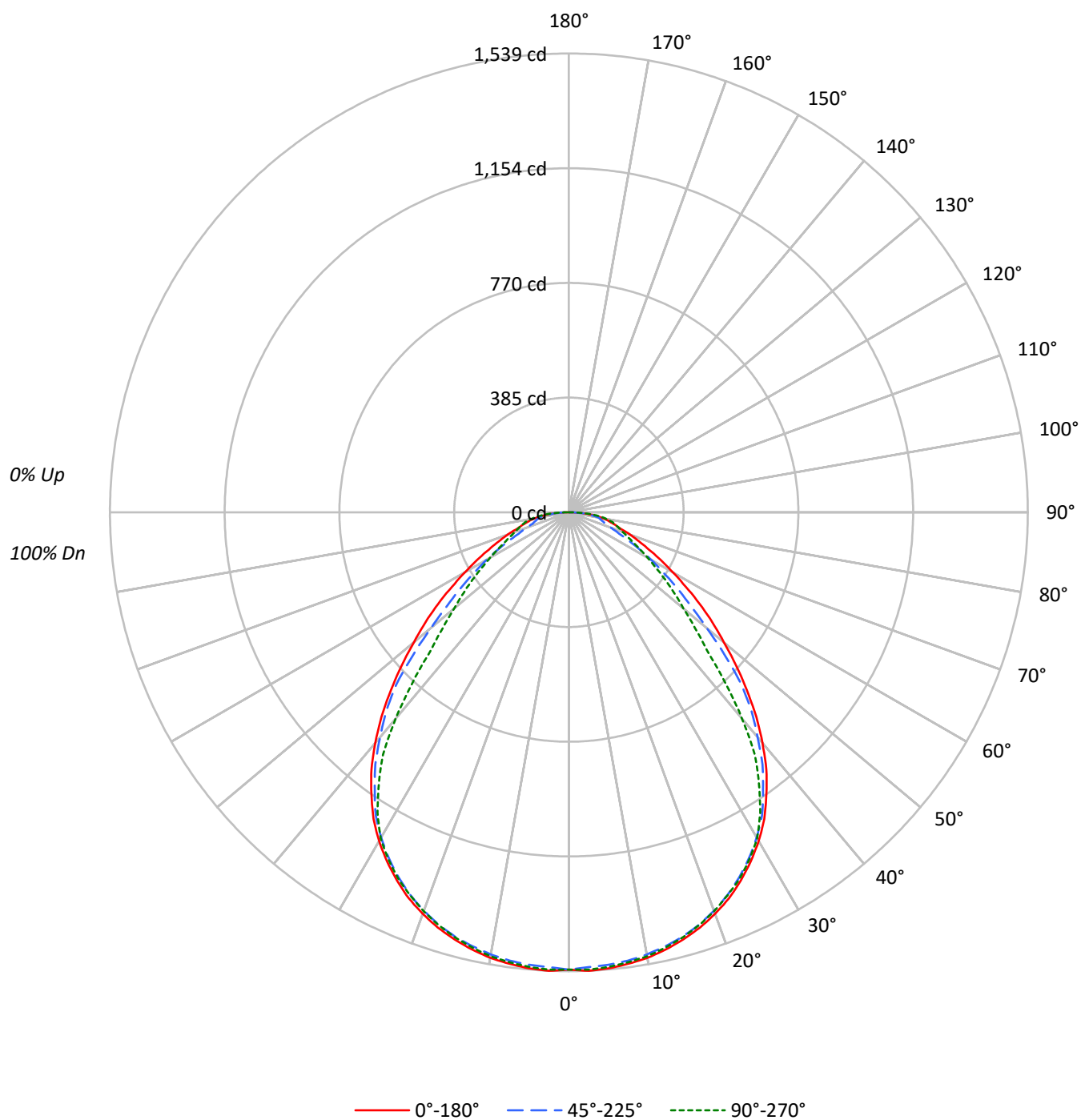
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10	50	30	10		
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°	4127	4127	4127
5°	4147	4116	4135
10°	4146	4114	4131
15°	4131	4106	4112
20°	4104	4073	4077
25°	4049	4012	4024
30°	3956	3913	3923
35°	3794	3730	3650
40°	3547	3459	3175
45°	3211	3119	2490
50°	2840	2523	2099
55°	2513	2074	1851
60°	2169	1716	1641
65°	1887	1365	1509
70°	1706	1172	1509
75°	1638	1224	1686
80°	1824	1559	1970
85°	1927	1661	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	4.3
10°-20°	416.9	12.4
20°-30°	624.0	18.6
30°-40°	706.3	21.0
40°-50°	601.6	17.9
50°-60°	407.3	12.1
60°-70°	243.2	7.2
70°-80°	151.9	4.5
80°-90°	64.2	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°	1186.4	35.3
0°-40°	1892.7	56.3
0°-60°	2901.6	86.3
0°-90°	3361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1535	1531	1524	1533	1531	146
15°	1483	1478	1474	1483	1476	418
25°	1364	1360	1351	1358	1355	627
35°	1155	1148	1135	1124	1111	720
45°	844	846	820	699	654	651
55°	536	506	442	394	394	479
65°	296	247	214	229	237	299
75°	158	141	118	154	162	170
85°	62	58	54	68	76	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.7	1533.7	1533.7	1533.7	1533.7
2.5°	1539.2	1535.3	1526.7	1536.8	1535.3
5°	1535.3	1531.4	1523.6	1533.0	1530.6
7.5°	1527.5	1523.6	1516.6	1525.9	1522.0
10°	1517.4	1512.7	1505.7	1515.8	1511.9
12.5°	1501.8	1497.1	1490.8	1501.0	1495.5
15°	1483.0	1477.6	1473.7	1483.0	1476.0
17.5°	1460.4	1455.8	1450.3	1459.7	1451.9
20°	1433.1	1429.2	1422.2	1427.7	1423.8
22.5°	1402.0	1396.5	1389.5	1395.7	1390.3
25°	1363.7	1359.9	1351.3	1357.5	1355.2
27.5°	1320.1	1317.7	1307.6	1315.4	1311.5
30°	1273.3	1267.1	1259.3	1261.6	1262.4
32.5°	1219.5	1211.7	1205.5	1200.0	1194.5
35°	1154.8	1147.8	1135.3	1123.6	1111.1
37.5°	1087.7	1078.4	1065.9	1040.2	1024.6
40°	1009.8	1005.1	984.8	948.9	903.7
42.5°	930.2	925.5	907.6	827.3	778.2
45°	843.7	846.0	819.5	698.6	654.2
47.5°	761.0	767.3	709.6	596.5	573.1
50°	678.4	685.4	602.7	515.4	501.4
52.5°	605.9	600.4	513.8	452.2	446.0
55°	535.7	506.0	442.1	394.5	394.5
57.5°	463.9	421.8	375.8	345.4	345.4
60°	403.1	350.9	318.9	298.6	304.9
62.5°	347.0	291.6	264.3	260.4	268.2
65°	296.3	247.2	214.4	229.2	237.0
67.5°	255.0	211.3	176.2	207.4	212.1
70°	216.8	184.0	148.9	191.0	191.8
72.5°	181.7	162.2	127.9	173.1	176.2
75°	157.5	141.1	117.7	154.4	162.2
77.5°	138.0	120.9	108.4	133.3	148.1
80°	117.7	99.0	100.6	112.3	127.1
82.5°	90.4	76.4	79.5	92.0	103.7
85°	62.4	57.7	53.8	67.8	76.4
87.5°	33.5	31.2	27.3	38.2	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)