

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: P291016

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 129.8 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

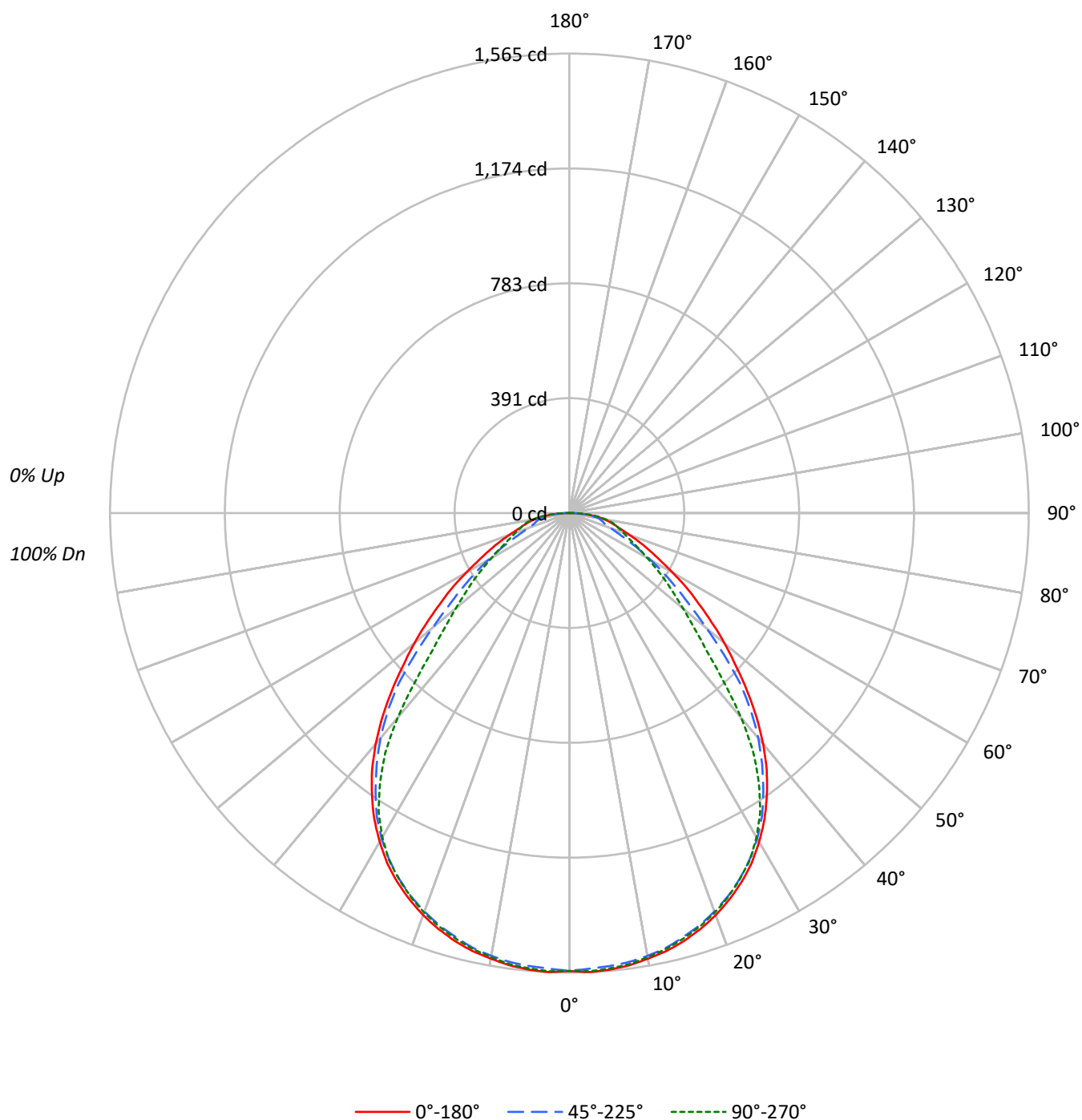
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4196	4196	4196
5°	4217	4185	4206
10°	4211	4185	4196
15°	4203	4166	4179
20°	4174	4135	4147
25°	4119	4079	4081
30°	4018	3976	3959
35°	3853	3783	3697
40°	3607	3515	3198
45°	3258	3134	2500
50°	2889	2545	2114
55°	2522	2088	1865
60°	2187	1718	1646
65°	1917	1379	1520
70°	1710	1169	1530
75°	1668	1233	1709
80°	1849	1556	1960
85°	1927	1658	2294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	4.3
10°-20°	423.8	12.5
20°-30°	634.0	18.6
30°-40°	715.7	21.0
40°-50°	607.2	17.8
50°-60°	410.8	12.1
60°-70°	245.2	7.2
70°-80°	153.6	4.5
80°-90°	64.6	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°	1205.8	35.4
0°-40°	1921.6	56.5
0°-60°	2939.6	86.4
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1561	1556	1549	1560	1557	148
15°	1509	1506	1495	1506	1500	425
25°	1387	1382	1374	1380	1374	638
35°	1173	1165	1152	1141	1126	731
45°	856	859	824	706	657	660
55°	538	512	445	398	398	484
65°	301	250	217	231	239	301
75°	160	143	119	156	164	173
85°	62	59	54	70	74	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1564.9	1560.2	1553.1	1562.6	1561.8
5°	1561.0	1556.2	1549.1	1560.2	1557.0
7.5°	1553.9	1549.9	1542.8	1553.1	1549.9
10°	1541.2	1538.1	1531.7	1540.4	1535.7
12.5°	1527.8	1525.4	1517.5	1525.4	1520.7
15°	1508.8	1505.7	1495.4	1505.7	1500.1
17.5°	1485.1	1481.2	1472.5	1481.2	1476.4
20°	1457.4	1452.7	1444.0	1452.7	1448.0
22.5°	1424.3	1420.3	1412.4	1420.3	1414.0
25°	1387.1	1382.4	1373.7	1380.0	1374.5
27.5°	1344.4	1338.1	1330.2	1334.9	1331.8
30°	1293.0	1285.1	1279.6	1279.6	1274.1
32.5°	1236.9	1231.4	1221.9	1216.4	1209.3
35°	1172.9	1165.0	1151.6	1141.3	1125.5
37.5°	1104.2	1094.7	1078.1	1052.0	1030.6
40°	1026.7	1014.8	1000.6	949.2	910.5
42.5°	943.7	941.3	916.8	829.1	775.4
45°	856.0	859.1	823.6	705.8	656.8
47.5°	767.5	778.5	713.7	598.3	573.0
50°	690.0	693.9	607.8	519.3	505.0
52.5°	610.2	603.8	518.5	456.8	446.6
55°	537.5	512.2	445.0	398.3	397.6
57.5°	473.4	426.8	380.2	345.4	349.3
60°	406.3	354.1	319.3	300.3	305.9
62.5°	347.0	297.2	266.4	260.8	270.3
65°	301.1	249.8	216.6	230.8	238.7
67.5°	257.7	214.2	176.3	210.2	213.4
70°	217.4	185.7	148.6	193.6	194.4
72.5°	184.2	164.4	128.8	175.5	177.8
75°	160.4	143.1	118.6	156.5	164.4
77.5°	140.7	122.5	109.9	135.2	148.6
80°	119.3	98.8	100.4	113.0	126.5
82.5°	91.7	76.7	79.8	93.3	102.7
85°	62.4	59.3	53.7	69.6	74.3
87.5°	33.2	31.6	27.7	39.5	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)