

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: P290965

Luminaire Tested: **14GR-LD5-32-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290965
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3305.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

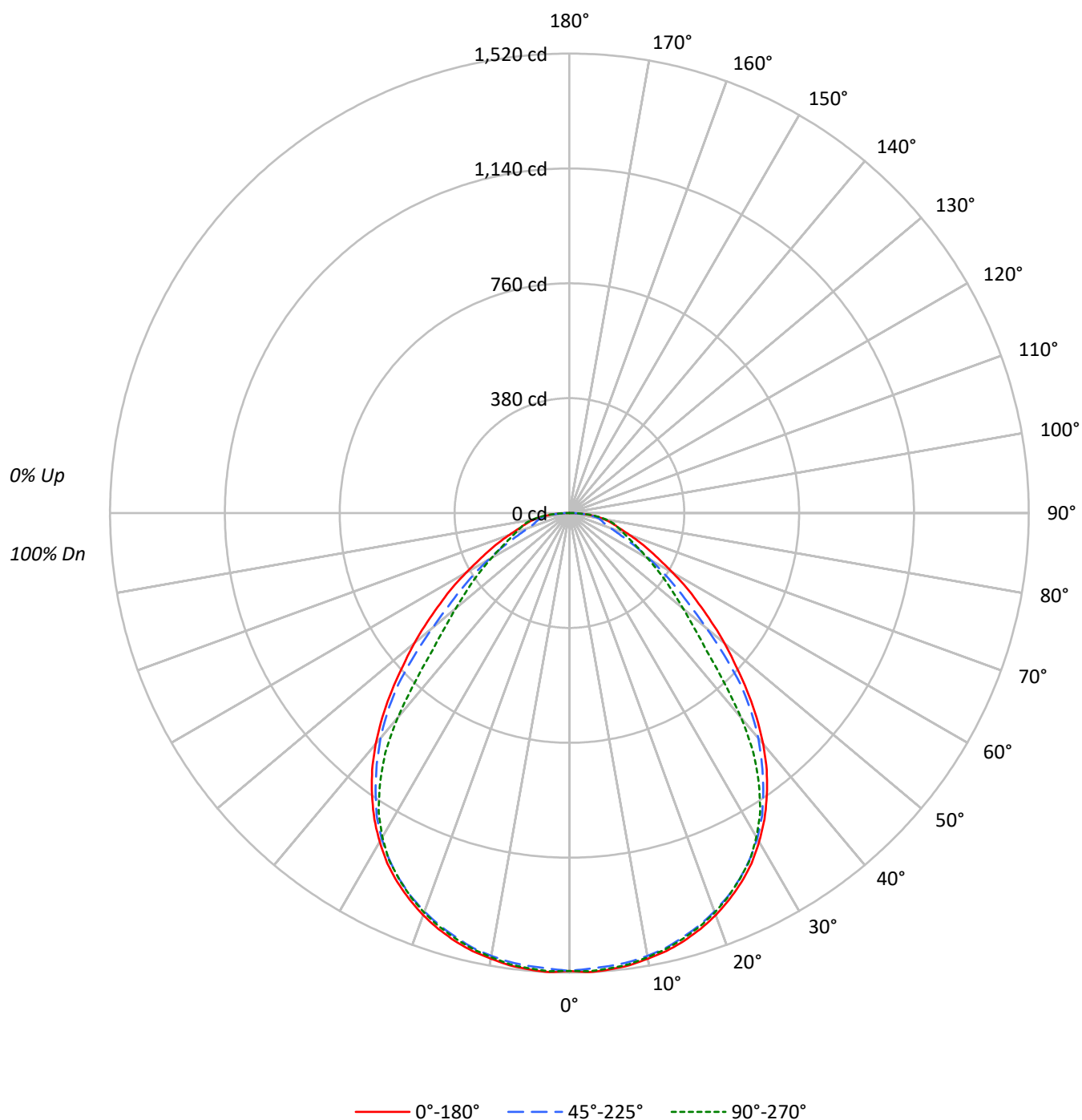
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4075	4075	4075
5°	4095	4064	4085
10°	4090	4065	4076
15°	4082	4046	4059
20°	4054	4016	4027
25°	4000	3961	3964
30°	3902	3862	3845
35°	3742	3674	3591
40°	3503	3414	3106
45°	3164	3044	2428
50°	2805	2471	2053
55°	2449	2028	1811
60°	2124	1669	1599
65°	1862	1339	1476
70°	1661	1135	1485
75°	1620	1197	1660
80°	1796	1511	1903
85°	1871	1612	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	4.3
10°-20°	411.6	12.5
20°-30°	615.8	18.6
30°-40°	695.1	21.0
40°-50°	589.7	17.8
50°-60°	399.0	12.1
60°-70°	238.2	7.2
70°-80°	149.2	4.5
80°-90°	62.8	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°	1171.1	35.4
0°-40°	1866.2	56.5
0°-60°	2855.0	86.4
0°-90°	3305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1516	1511	1504	1515	1512	144
15°	1465	1462	1452	1462	1457	413
25°	1347	1343	1334	1340	1335	619
35°	1139	1132	1118	1108	1093	710
45°	831	834	800	686	638	641
55°	522	497	432	387	386	470
65°	292	243	210	224	232	292
75°	156	139	115	152	160	168
85°	61	58	52	68	72	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.5	1514.5	1514.5	1514.5	1514.5
2.5°	1519.9	1515.3	1508.4	1517.6	1516.8
5°	1516.0	1511.4	1504.5	1515.3	1512.2
7.5°	1509.1	1505.3	1498.4	1508.4	1505.3
10°	1496.8	1493.8	1487.6	1496.1	1491.5
12.5°	1483.8	1481.5	1473.8	1481.5	1476.9
15°	1465.4	1462.3	1452.3	1462.3	1456.9
17.5°	1442.3	1438.5	1430.1	1438.5	1433.9
20°	1415.5	1410.9	1402.4	1410.9	1406.3
22.5°	1383.2	1379.4	1371.7	1379.4	1373.3
25°	1347.2	1342.6	1334.1	1340.2	1334.9
27.5°	1305.7	1299.6	1291.9	1296.5	1293.4
30°	1255.8	1248.1	1242.8	1242.8	1237.4
32.5°	1201.3	1195.9	1186.7	1181.4	1174.4
35°	1139.1	1131.5	1118.4	1108.4	1093.1
37.5°	1072.4	1063.1	1047.0	1021.7	1001.0
40°	997.1	985.6	971.8	921.9	884.3
42.5°	916.5	914.2	890.4	805.2	753.0
45°	831.3	834.4	799.9	685.5	637.9
47.5°	745.4	756.1	693.2	581.1	556.5
50°	670.1	674.0	590.3	504.3	490.5
52.5°	592.6	586.5	503.6	443.7	433.7
55°	522.0	497.4	432.2	386.9	386.1
57.5°	459.8	414.5	369.2	335.4	339.3
60°	394.6	343.9	310.1	291.7	297.1
62.5°	337.0	288.6	258.7	253.3	262.5
65°	292.5	242.6	210.3	224.1	231.8
67.5°	250.2	208.0	171.2	204.2	207.3
70°	211.1	180.4	144.3	188.1	188.8
72.5°	178.9	159.7	125.1	170.4	172.7
75°	155.8	138.9	115.1	152.0	159.7
77.5°	136.6	119.0	106.7	131.3	144.3
80°	115.9	96.0	97.5	109.8	122.8
82.5°	89.0	74.5	77.5	90.6	99.8
85°	60.6	57.6	52.2	67.5	72.2
87.5°	32.2	30.7	26.9	38.4	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)