

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: P291010

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291010
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-LD5-28-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3044.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

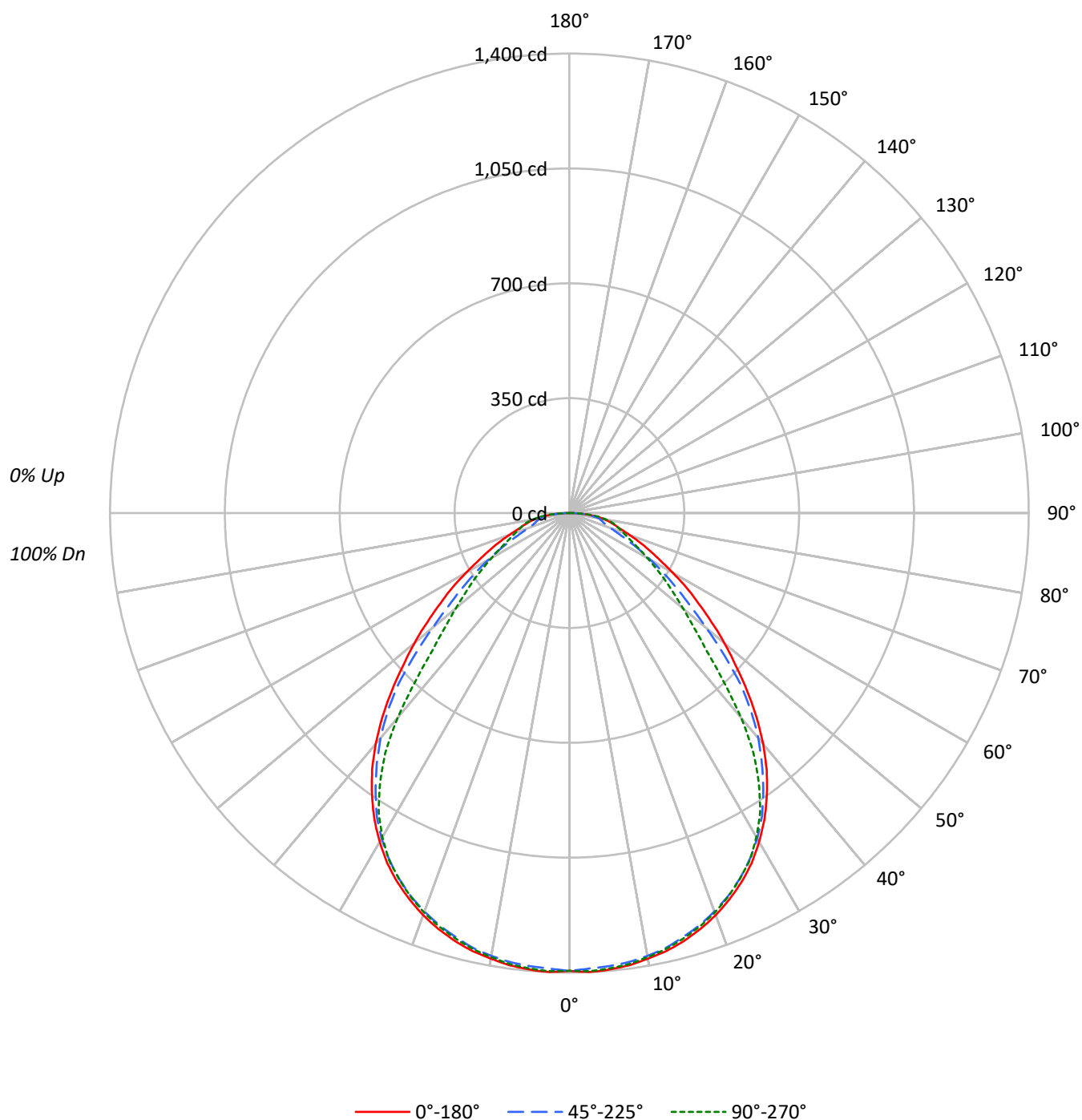
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3754	3754	3754
5°	3772	3743	3762
10°	3767	3744	3754
15°	3760	3726	3738
20°	3733	3699	3709
25°	3684	3649	3651
30°	3594	3557	3541
35°	3447	3384	3307
40°	3226	3144	2861
45°	2914	2804	2236
50°	2584	2276	1891
55°	2256	1867	1668
60°	1956	1537	1473
65°	1715	1233	1359
70°	1530	1046	1368
75°	1492	1102	1529
80°	1655	1392	1753
85°	1726	1485	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.3
10°-20°	379.1	12.5
20°-30°	567.2	18.6
30°-40°	640.2	21.0
40°-50°	543.1	17.8
50°-60°	367.5	12.1
60°-70°	219.4	7.2
70°-80°	137.4	4.5
80°-90°	57.8	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°	1078.6	35.4
0°-40°	1718.9	56.5
0°-60°	2629.5	86.4
0°-90°	3044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1396	1392	1386	1396	1393	133
15°	1350	1347	1338	1347	1342	381
25°	1241	1236	1229	1234	1230	571
35°	1049	1042	1030	1021	1007	654
45°	766	768	737	631	588	590
55°	481	458	398	356	356	433
65°	269	223	194	206	214	269
75°	144	128	106	140	147	154
85°	56	53	48	62	66	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.9	1394.9	1394.9	1394.9	1394.9
2.5°	1399.8	1395.6	1389.2	1397.7	1397.0
5°	1396.3	1392.1	1385.7	1395.6	1392.8
7.5°	1389.9	1386.4	1380.0	1389.2	1386.4
10°	1378.6	1375.8	1370.2	1377.9	1373.7
12.5°	1366.6	1364.5	1357.4	1364.5	1360.3
15°	1349.6	1346.8	1337.6	1346.8	1341.9
17.5°	1328.4	1324.9	1317.1	1324.9	1320.7
20°	1303.7	1299.5	1291.7	1299.5	1295.2
22.5°	1274.0	1270.5	1263.4	1270.5	1264.8
25°	1240.8	1236.5	1228.8	1234.4	1229.5
27.5°	1202.6	1196.9	1189.9	1194.1	1191.3
30°	1156.6	1149.6	1144.6	1144.6	1139.7
32.5°	1106.4	1101.5	1093.0	1088.1	1081.7
35°	1049.2	1042.1	1030.1	1020.9	1006.8
37.5°	987.7	979.2	964.3	941.0	921.9
40°	918.4	907.8	895.1	849.1	814.5
42.5°	844.1	842.0	820.1	741.6	693.6
45°	765.7	768.5	736.7	631.3	587.5
47.5°	686.5	696.4	638.4	535.2	512.6
50°	617.2	620.7	543.7	464.5	451.8
52.5°	545.8	540.1	463.8	408.6	399.5
55°	480.8	458.1	398.0	356.3	355.6
57.5°	423.5	381.8	340.1	309.0	312.5
60°	363.4	316.7	285.6	268.7	273.6
62.5°	310.4	265.8	238.3	233.3	241.8
65°	269.4	223.4	193.7	206.4	213.5
67.5°	230.5	191.6	157.7	188.1	190.9
70°	194.4	166.1	132.9	173.2	173.9
72.5°	164.7	147.1	115.2	157.0	159.1
75°	143.5	128.0	106.0	140.0	147.1
77.5°	125.8	109.6	98.3	120.9	132.9
80°	106.8	88.4	89.8	101.1	113.1
82.5°	82.0	68.6	71.4	83.4	91.9
85°	55.9	53.0	48.1	62.2	66.5
87.5°	29.7	28.3	24.7	35.3	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)