

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: P290775

Luminaire Tested: **14GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

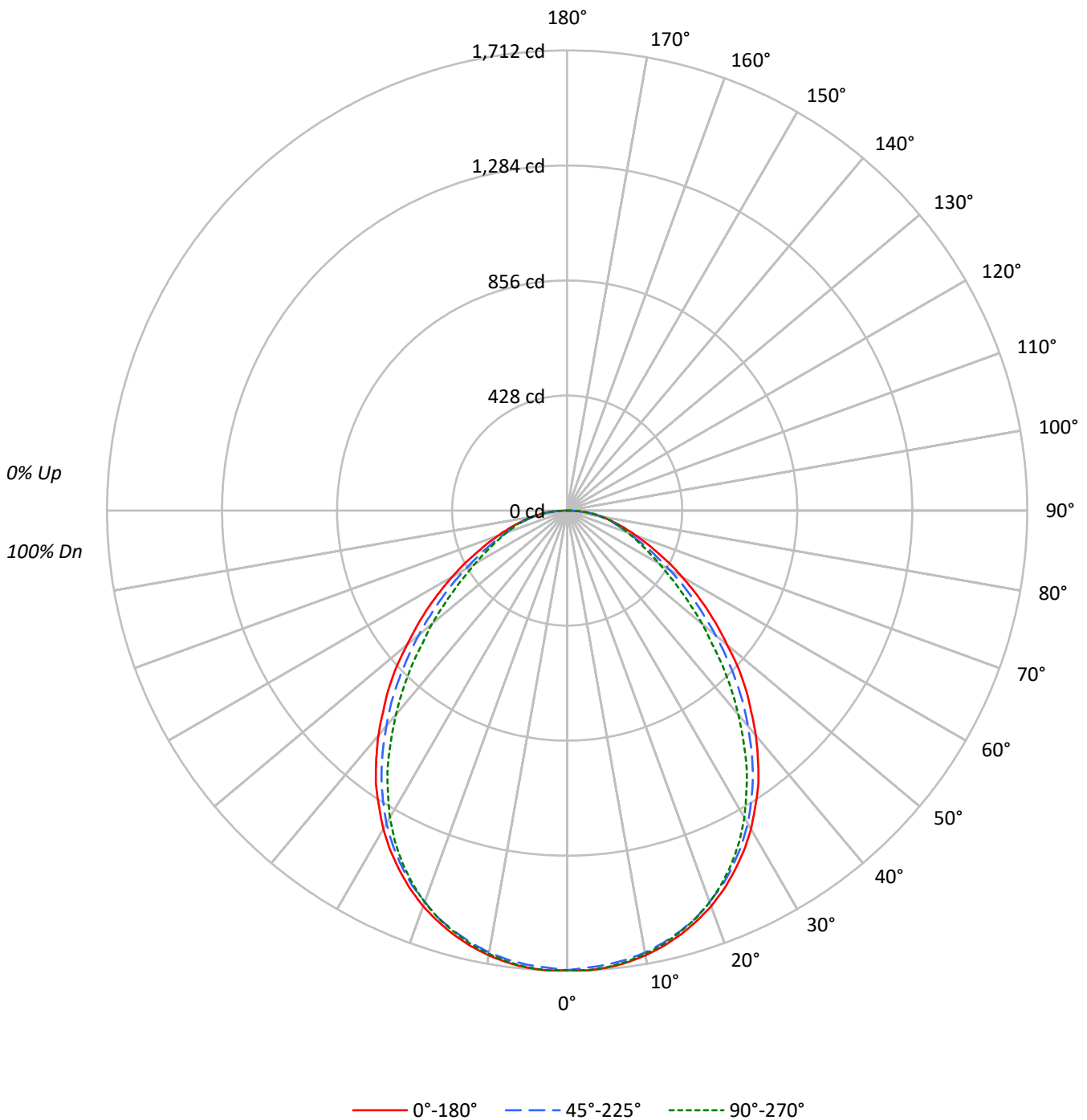
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4601	4601	4601
5°	4611	4582	4606
10°	4591	4561	4576
15°	4550	4515	4522
20°	4486	4437	4440
25°	4384	4331	4301
30°	4249	4176	4098
35°	4075	3957	3826
40°	3838	3674	3481
45°	3579	3363	3113
50°	3255	3017	2749
55°	2963	2675	2396
60°	2657	2356	2129
65°	2369	2099	1956
70°	2155	1913	1892
75°	2014	1864	1958
80°	2024	1926	2038
85°	2115	1976	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	4.2
10°-20°	458.3	11.9
20°-30°	672.0	17.5
30°-40°	750.1	19.5
40°-50°	679.1	17.7
50°-60°	512.7	13.4
60°-70°	335.2	8.7
70°-80°	196.9	5.1
80°-90°	72.1	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°	1292.0	33.7
0°-40°	2042.1	53.2
0°-60°	3233.9	84.3
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1707	1704	1696	1706	1705	162
15°	1633	1630	1621	1630	1623	460
25°	1476	1471	1458	1456	1449	679
35°	1240	1230	1204	1177	1165	773
45°	940	926	884	836	818	723
55°	632	617	570	525	511	565
65°	372	360	330	311	307	373
75°	194	188	179	183	188	208
85°	68	66	64	72	73	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.8	1709.8	1709.8	1709.8	1709.8
2.5°	1712.5	1709.8	1701.7	1712.5	1711.6
5°	1707.1	1703.5	1696.3	1706.2	1705.3
7.5°	1696.3	1692.7	1685.5	1694.5	1692.7
10°	1680.1	1676.5	1669.3	1679.2	1674.7
12.5°	1659.4	1655.8	1647.6	1656.7	1653.1
15°	1633.2	1630.5	1620.6	1629.6	1623.3
17.5°	1601.7	1597.2	1590.0	1595.4	1590.9
20°	1566.6	1561.2	1549.5	1554.9	1550.4
22.5°	1524.2	1517.0	1508.9	1508.9	1502.6
25°	1476.5	1471.1	1458.5	1455.8	1448.6
27.5°	1425.1	1420.6	1404.4	1399.9	1387.3
30°	1367.5	1361.2	1344.1	1329.6	1318.8
32.5°	1303.5	1299.0	1275.6	1256.7	1241.4
35°	1240.5	1229.7	1204.4	1177.4	1164.8
37.5°	1166.6	1158.5	1127.0	1093.6	1076.5
40°	1092.7	1082.8	1045.9	1008.9	990.9
42.5°	1012.6	1003.5	968.4	924.3	905.3
45°	940.5	926.1	883.7	836.0	818.0
47.5°	861.2	845.9	800.9	750.4	729.7
50°	777.4	767.5	720.7	672.0	656.7
52.5°	702.7	687.3	643.2	595.5	579.2
55°	631.5	617.1	570.2	525.2	510.8
57.5°	560.3	544.1	503.6	463.0	448.6
60°	493.7	477.4	437.8	404.5	395.5
62.5°	433.3	415.3	380.2	354.0	347.7
65°	372.0	360.3	329.7	310.8	307.2
67.5°	320.7	306.3	282.0	273.0	271.2
70°	273.9	263.9	243.2	240.5	240.5
72.5°	231.5	223.4	208.1	209.9	212.6
75°	193.7	188.3	179.3	182.9	188.3
77.5°	161.3	155.8	150.4	155.8	159.4
80°	130.6	125.2	124.3	128.8	131.5
82.5°	98.2	93.7	94.6	101.8	104.5
85°	68.5	65.8	64.0	72.1	73.0
87.5°	35.1	33.3	32.4	38.7	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)