

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: P290637

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

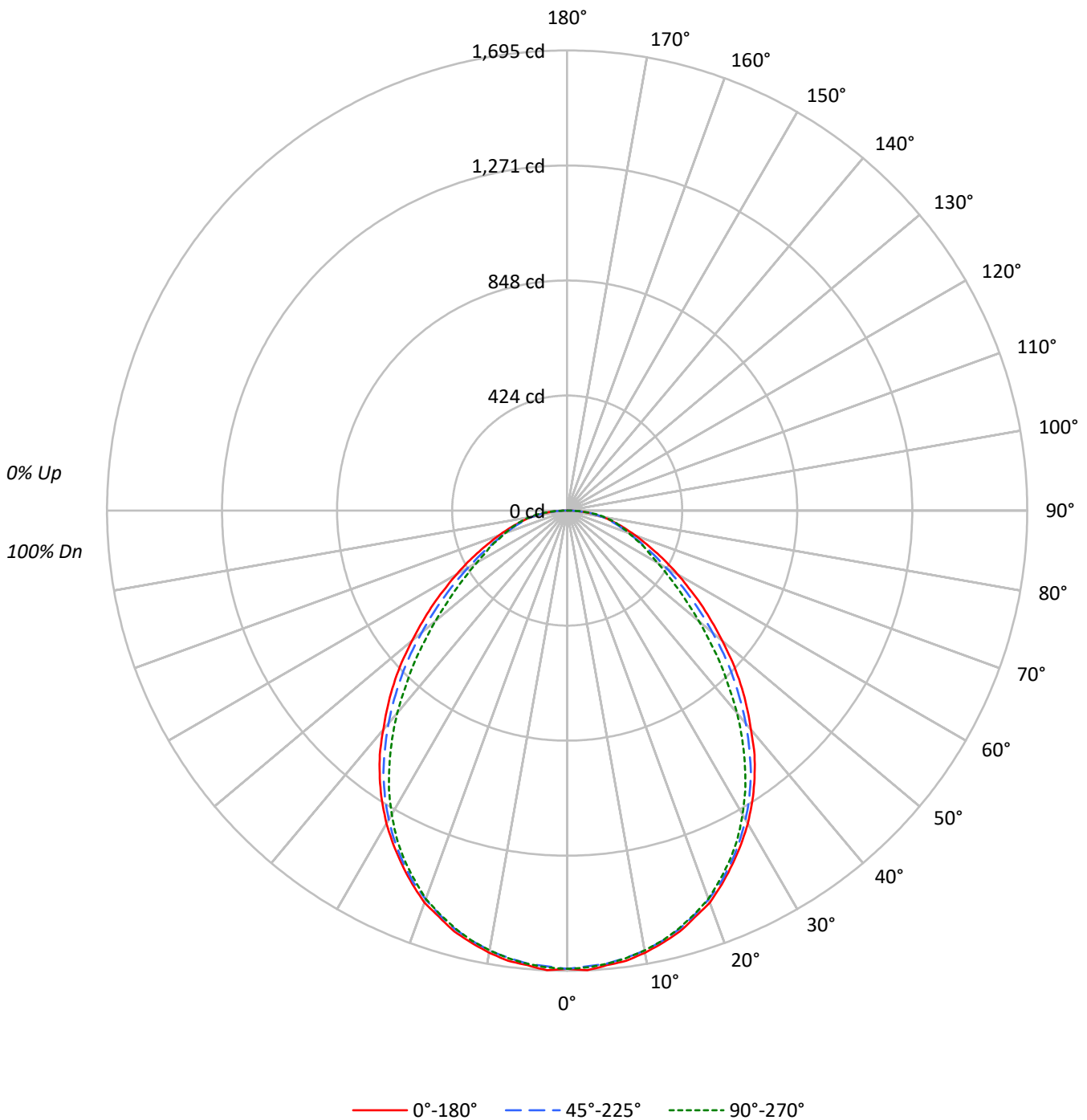
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	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	57	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	61	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	52	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	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4542	4542	4542
5°	4541	4524	4527
10°	4518	4497	4494
15°	4472	4446	4439
20°	4400	4363	4358
25°	4273	4245	4214
30°	4135	4085	4015
35°	3954	3877	3750
40°	3702	3599	3421
45°	3438	3283	3044
50°	3119	2924	2650
55°	2821	2583	2317
60°	2533	2264	2065
65°	2273	2021	1978
70°	2098	1882	1902
75°	2004	1887	1994
80°	2027	2013	2173
85°	2100	2072	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	4.2
10°-20°	450.4	12.0
20°-30°	657.8	17.5
30°-40°	733.0	19.5
40°-50°	660.5	17.6
50°-60°	493.7	13.2
60°-70°	325.7	8.7
70°-80°	198.8	5.3
80°-90°	73.8	2.0
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°	1267.6	33.8
0°-40°	2000.6	53.3
0°-60°	3154.8	84.1
0°-90°	3753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1681	1679	1675	1684	1676	160
15°	1605	1599	1596	1605	1593	452
25°	1439	1434	1430	1432	1419	662
35°	1204	1193	1180	1160	1142	750
45°	903	894	863	823	800	695
55°	601	592	551	505	494	539
65°	357	346	317	304	311	358
75°	193	189	182	188	192	206
85°	68	65	67	74	75	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.8	1687.8	1687.8	1687.8	1687.8
2.5°	1694.7	1687.0	1680.1	1690.4	1684.4
5°	1680.9	1679.2	1674.9	1683.5	1675.8
7.5°	1672.3	1666.3	1661.2	1671.5	1662.9
10°	1653.4	1650.0	1645.7	1654.3	1644.8
12.5°	1630.2	1626.7	1622.4	1632.8	1622.4
15°	1605.2	1599.2	1595.8	1605.2	1593.2
17.5°	1569.1	1566.5	1561.4	1570.8	1558.8
20°	1536.4	1527.0	1523.5	1530.4	1521.8
22.5°	1489.1	1482.2	1481.4	1485.7	1471.0
25°	1439.2	1434.0	1429.7	1432.3	1419.4
27.5°	1386.7	1379.8	1374.7	1373.8	1360.1
30°	1330.8	1322.2	1314.5	1307.6	1292.1
32.5°	1269.7	1259.4	1249.1	1237.9	1221.6
35°	1203.5	1193.2	1180.3	1159.6	1141.6
37.5°	1133.8	1121.8	1101.1	1077.0	1059.0
40°	1053.8	1047.8	1024.6	993.6	973.8
42.5°	979.0	972.1	942.8	908.4	881.8
45°	903.3	893.8	862.8	823.3	800.0
47.5°	825.8	816.4	782.0	732.9	712.3
50°	745.0	739.8	698.5	653.8	633.1
52.5°	671.0	665.0	622.8	578.1	559.2
55°	601.3	591.9	550.6	505.0	493.8
57.5°	531.6	521.3	482.6	443.9	436.1
60°	470.6	457.7	420.7	390.6	383.7
62.5°	412.9	398.3	367.3	344.1	340.7
65°	357.0	345.8	317.4	304.5	310.6
67.5°	308.8	297.6	277.0	271.8	270.1
70°	266.7	256.4	239.2	240.9	241.7
72.5°	228.0	221.9	209.0	213.3	216.8
75°	192.7	189.3	181.5	187.5	191.8
77.5°	160.9	158.3	154.8	160.0	166.9
80°	130.8	129.0	129.9	133.3	140.2
82.5°	100.6	97.2	99.8	106.7	111.0
85°	68.0	65.4	67.1	74.0	74.8
87.5°	31.8	31.8	31.0	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)