

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: P290699

Luminaire Tested: **14GR-LD5-24-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290699
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-LD5-24-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

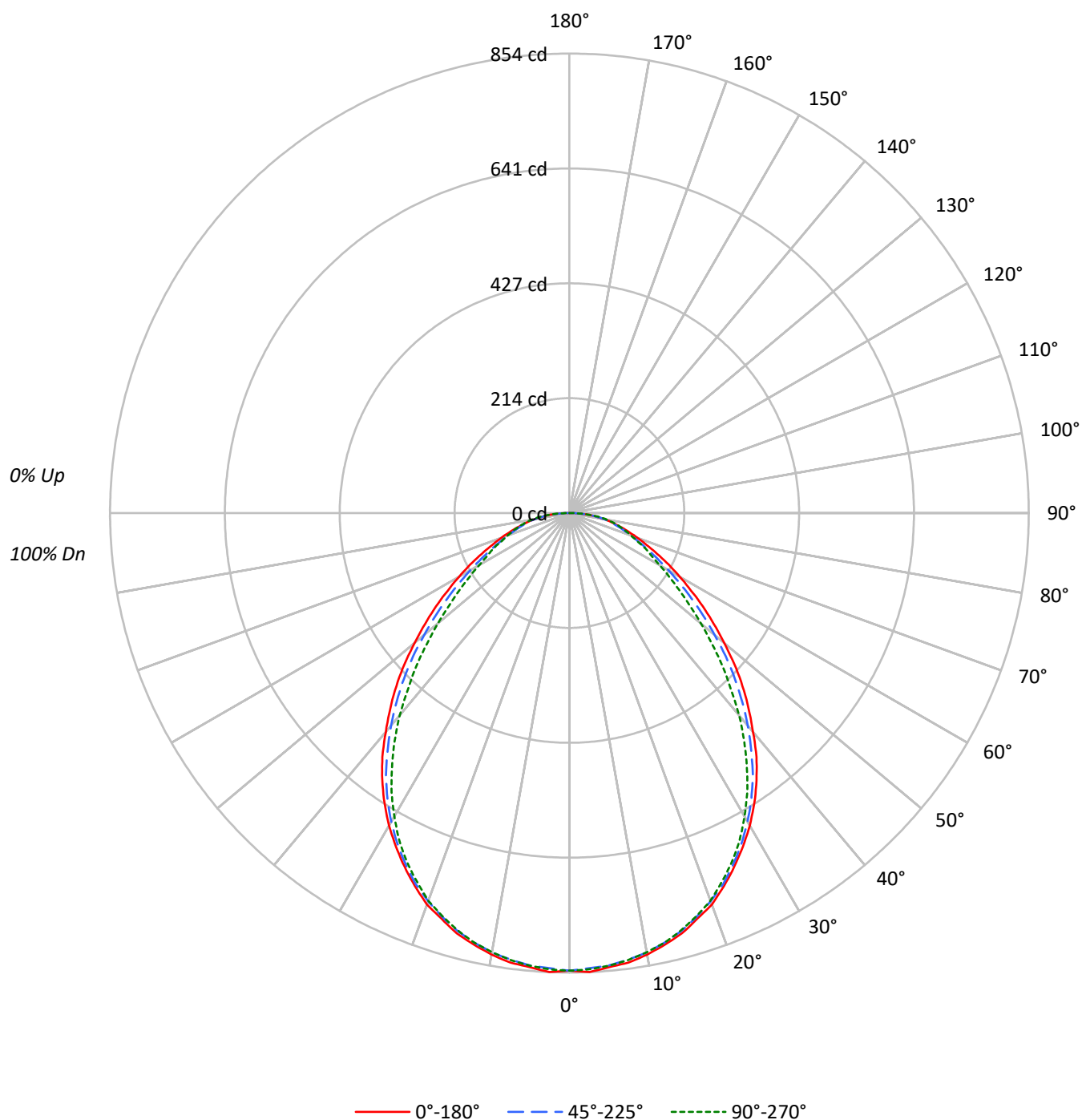
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2288	2288	2288
5°	2288	2280	2281
10°	2276	2266	2265
15°	2253	2240	2237
20°	2217	2198	2196
25°	2153	2139	2124
30°	2083	2058	2023
35°	1992	1954	1890
40°	1865	1813	1724
45°	1732	1655	1534
50°	1572	1474	1335
55°	1422	1301	1167
60°	1276	1141	1040
65°	1145	1018	996
70°	1057	948	958
75°	1010	951	1005
80°	1021	1015	1096
85°	1056	1044	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	4.2
10°-20°	227.0	12.0
20°-30°	331.5	17.5
30°-40°	369.3	19.5
40°-50°	332.8	17.6
50°-60°	248.8	13.2
60°-70°	164.1	8.7
70°-80°	100.2	5.3
80°-90°	37.2	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°	638.7	33.8
0°-40°	1008.0	53.3
0°-60°	1589.6	84.1
0°-90°	1891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	847	846	844	848	844	80
15°	809	806	804	809	803	228
25°	725	723	720	722	715	334
35°	606	601	595	584	575	378
45°	455	450	435	415	403	350
55°	303	298	277	254	249	271
65°	180	174	160	153	156	180
75°	97	95	92	94	97	104
85°	34	33	34	37	38	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.4	850.4	850.4	850.4	850.4
2.5°	853.9	850.0	846.5	851.7	848.7
5°	847.0	846.1	843.9	848.3	844.4
7.5°	842.6	839.6	837.0	842.2	837.9
10°	833.1	831.4	829.2	833.5	828.8
12.5°	821.4	819.7	817.5	822.7	817.5
15°	808.8	805.8	804.1	808.8	802.8
17.5°	790.6	789.3	786.7	791.5	785.4
20°	774.1	769.4	767.6	771.1	766.8
22.5°	750.3	746.8	746.4	748.6	741.2
25°	725.2	722.6	720.4	721.7	715.2
27.5°	698.7	695.3	692.7	692.2	685.3
30°	670.5	666.2	662.3	658.8	651.0
32.5°	639.8	634.6	629.4	623.7	615.5
35°	606.4	601.2	594.7	584.3	575.2
37.5°	571.3	565.2	554.8	542.7	533.6
40°	531.0	527.9	516.2	500.6	490.7
42.5°	493.3	489.8	475.1	457.7	444.3
45°	455.1	450.4	434.8	414.8	403.1
47.5°	416.1	411.3	394.0	369.3	358.9
50°	375.4	372.8	352.0	329.4	319.0
52.5°	338.1	335.1	313.8	291.3	281.7
55°	303.0	298.2	277.4	254.4	248.8
57.5°	267.9	262.7	243.2	223.7	219.8
60°	237.1	230.6	212.0	196.8	193.3
62.5°	208.1	200.7	185.1	173.4	171.6
65°	179.9	174.2	159.9	153.4	156.5
67.5°	155.6	150.0	139.6	137.0	136.1
70°	134.4	129.2	120.5	121.4	121.8
72.5°	114.9	111.8	105.3	107.5	109.2
75°	97.1	95.4	91.5	94.5	96.7
77.5°	81.1	79.8	78.0	80.6	84.1
80°	65.9	65.0	65.5	67.2	70.7
82.5°	50.7	49.0	50.3	53.7	55.9
85°	34.2	32.9	33.8	37.3	37.7
87.5°	16.0	16.0	15.6	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)