

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: P290984

Luminaire Tested: **14GR-LD5-20-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290984
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-LD5-20-A-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

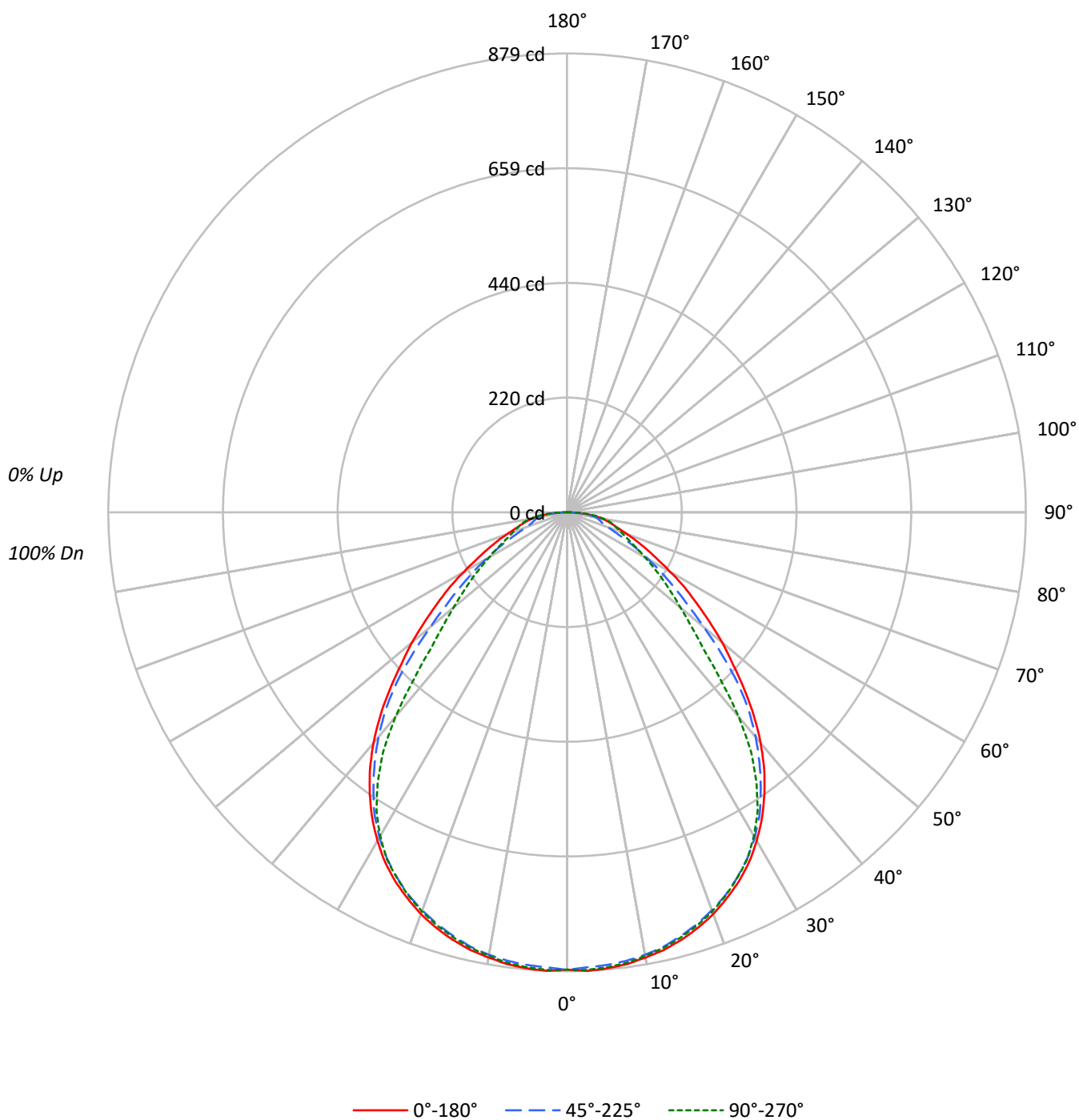
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2358	2358	2358
5°	2369	2351	2363
10°	2366	2352	2358
15°	2362	2341	2348
20°	2345	2323	2330
25°	2314	2292	2293
30°	2257	2234	2224
35°	2165	2125	2077
40°	2027	1975	1797
45°	1830	1761	1404
50°	1623	1430	1188
55°	1417	1173	1048
60°	1229	966	925
65°	1077	775	854
70°	961	657	859
75°	937	692	961
80°	1040	874	1102
85°	1084	932	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	4.3
10°-20°	238.1	12.5
20°-30°	356.2	18.6
30°-40°	402.1	21.0
40°-50°	341.2	17.8
50°-60°	230.8	12.1
60°-70°	137.8	7.2
70°-80°	86.3	4.5
80°-90°	36.3	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°	677.5	35.4
0°-40°	1079.7	56.5
0°-60°	1651.6	86.4
0°-90°	1912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	877	874	870	877	875	83
15°	848	846	840	846	843	239
25°	779	777	772	775	772	358
35°	659	655	647	641	632	411
45°	481	483	463	397	369	371
55°	302	288	250	224	223	272
65°	169	140	122	130	134	169
75°	90	80	67	88	92	97
85°	35	33	30	39	42	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.2	876.2	876.2	876.2	876.2
2.5°	879.3	876.6	872.6	877.9	877.5
5°	877.1	874.4	870.4	876.6	874.8
7.5°	873.1	870.8	866.8	872.6	870.8
10°	865.9	864.2	860.6	865.5	862.8
12.5°	858.4	857.1	852.6	857.1	854.4
15°	847.7	846.0	840.2	846.0	842.9
17.5°	834.4	832.2	827.3	832.2	829.5
20°	818.9	816.2	811.3	816.2	813.5
22.5°	800.2	798.0	793.6	798.0	794.5
25°	779.4	776.7	771.8	775.4	772.2
27.5°	755.4	751.8	747.4	750.0	748.3
30°	726.5	722.1	719.0	719.0	715.9
32.5°	695.0	691.9	686.5	683.4	679.4
35°	659.0	654.6	647.0	641.2	632.4
37.5°	620.4	615.0	605.7	591.1	579.1
40°	576.9	570.2	562.2	533.3	511.6
42.5°	530.2	528.9	515.1	465.8	435.6
45°	480.9	482.7	462.7	396.6	369.0
47.5°	431.2	437.4	401.0	336.2	322.0
50°	387.7	389.9	341.5	291.8	283.8
52.5°	342.8	339.3	291.3	256.7	250.9
55°	302.0	287.8	250.0	223.8	223.4
57.5°	266.0	239.8	213.6	194.1	196.3
60°	228.3	198.9	179.4	168.7	171.9
62.5°	194.9	167.0	149.7	146.5	151.9
65°	169.2	140.3	121.7	129.7	134.1
67.5°	144.8	120.3	99.0	118.1	119.9
70°	122.1	104.4	83.5	108.8	109.2
72.5°	103.5	92.4	72.4	98.6	99.9
75°	90.1	80.4	66.6	87.9	92.4
77.5°	79.0	68.8	61.7	75.9	83.5
80°	67.1	55.5	56.4	63.5	71.1
82.5°	51.5	43.1	44.9	52.4	57.7
85°	35.1	33.3	30.2	39.1	41.7
87.5°	18.7	17.8	15.5	22.2	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)