

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: P290990

Luminaire Tested: **14GR-LD5-20-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290990
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2166.0 lumens
Efficiency: N/A
Efficacy: 135.4 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

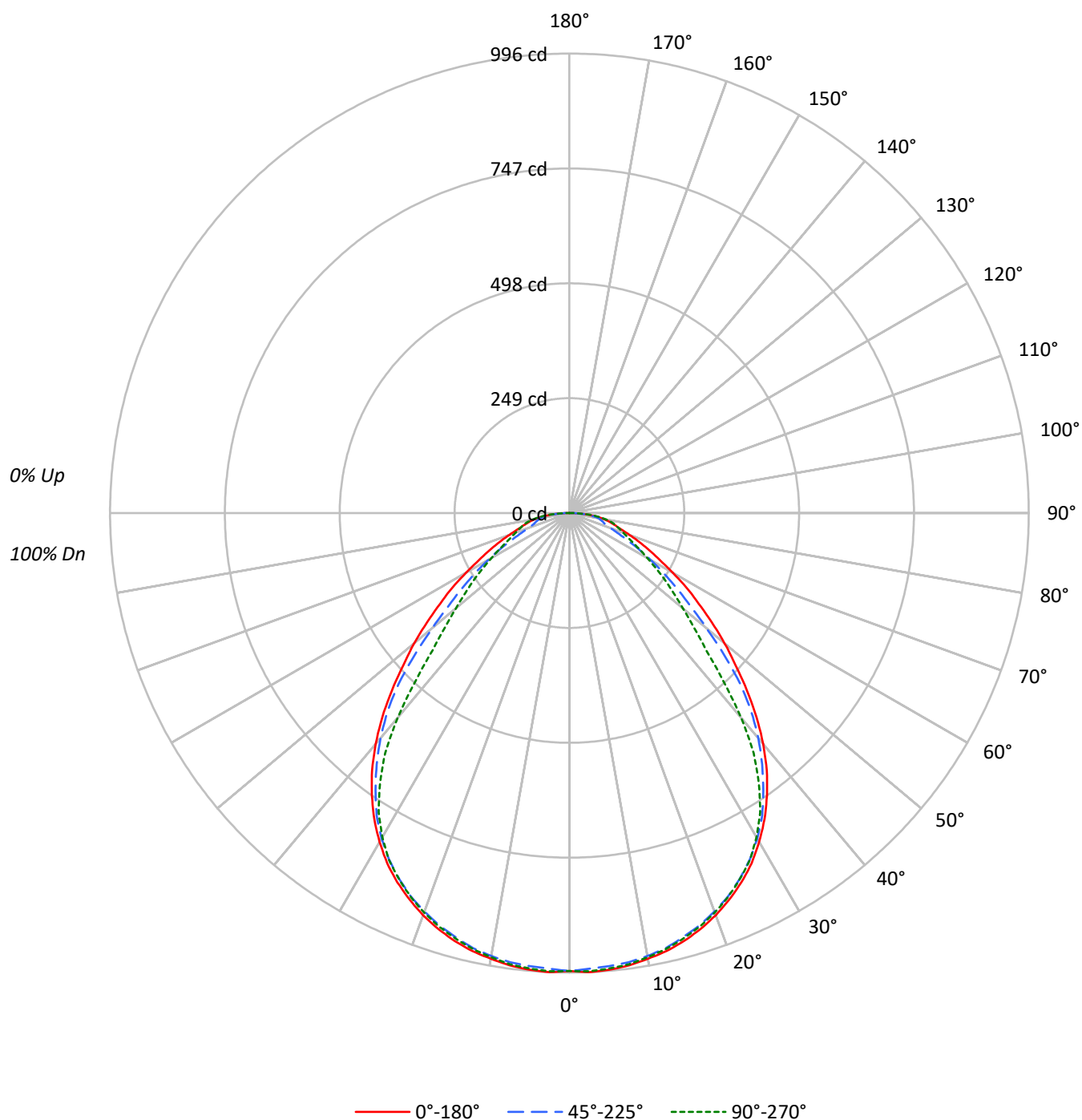
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	2671	2671	2671
5°	2684	2663	2677
10°	2681	2664	2671
15°	2676	2652	2660
20°	2657	2632	2639
25°	2621	2596	2597
30°	2557	2531	2520
35°	2453	2408	2353
40°	2296	2237	2036
45°	2073	1995	1591
50°	1839	1620	1346
55°	1605	1329	1187
60°	1392	1094	1048
65°	1221	877	967
70°	1088	744	974
75°	1062	785	1088
80°	1178	990	1247
85°	1226	1056	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	4.3
10°-20°	269.8	12.5
20°-30°	403.6	18.6
30°-40°	455.6	21.0
40°-50°	386.5	17.8
50°-60°	261.5	12.1
60°-70°	156.1	7.2
70°-80°	97.7	4.5
80°-90°	41.1	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°	767.5	35.4
0°-40°	1223.1	56.5
0°-60°	1871.0	86.4
0°-90°	2166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	994	990	986	993	991	94
15°	960	958	952	958	955	271
25°	883	880	874	878	875	406
35°	747	742	733	726	716	465
45°	545	547	524	449	418	420
55°	342	326	283	254	253	308
65°	192	159	138	147	152	192
75°	102	91	76	100	105	110
85°	40	38	34	44	47	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.6	992.6	992.6	992.6	992.6
2.5°	996.1	993.1	988.5	994.6	994.1
5°	993.6	990.5	986.0	993.1	991.0
7.5°	989.0	986.5	982.0	988.5	986.5
10°	981.0	979.0	974.9	980.5	977.5
12.5°	972.4	970.9	965.9	970.9	967.9
15°	960.4	958.3	951.8	958.3	954.8
17.5°	945.3	942.8	937.2	942.8	939.7
20°	927.7	924.6	919.1	924.6	921.6
22.5°	906.5	904.0	899.0	904.0	900.0
25°	882.9	879.9	874.3	878.4	874.8
27.5°	855.7	851.7	846.7	849.7	847.7
30°	823.0	818.0	814.5	814.5	810.9
32.5°	787.3	783.8	777.7	774.2	769.7
35°	746.6	741.5	733.0	726.4	716.4
37.5°	702.8	696.8	686.2	669.6	656.0
40°	653.5	645.9	636.9	604.2	579.5
42.5°	600.7	599.2	583.6	527.7	493.5
45°	544.8	546.8	524.2	449.2	418.1
47.5°	488.5	495.5	454.3	380.8	364.7
50°	439.2	441.7	386.9	330.5	321.5
52.5°	388.4	384.3	330.0	290.8	284.2
55°	342.1	326.0	283.2	253.5	253.0
57.5°	301.3	271.7	242.0	219.8	222.4
60°	258.6	225.4	203.2	191.2	194.7
62.5°	220.8	189.2	169.5	166.0	172.0
65°	191.7	159.0	137.8	146.9	151.9
67.5°	164.0	136.3	112.2	133.8	135.8
70°	138.3	118.2	94.6	123.3	123.8
72.5°	117.2	104.6	82.0	111.7	113.2
75°	102.1	91.1	75.5	99.6	104.6
77.5°	89.5	78.0	69.9	86.0	94.6
80°	76.0	62.9	63.9	71.9	80.5
82.5°	58.4	48.8	50.8	59.4	65.4
85°	39.7	37.7	34.2	44.3	47.3
87.5°	21.1	20.1	17.6	25.2	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)