

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: P291184

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2118.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

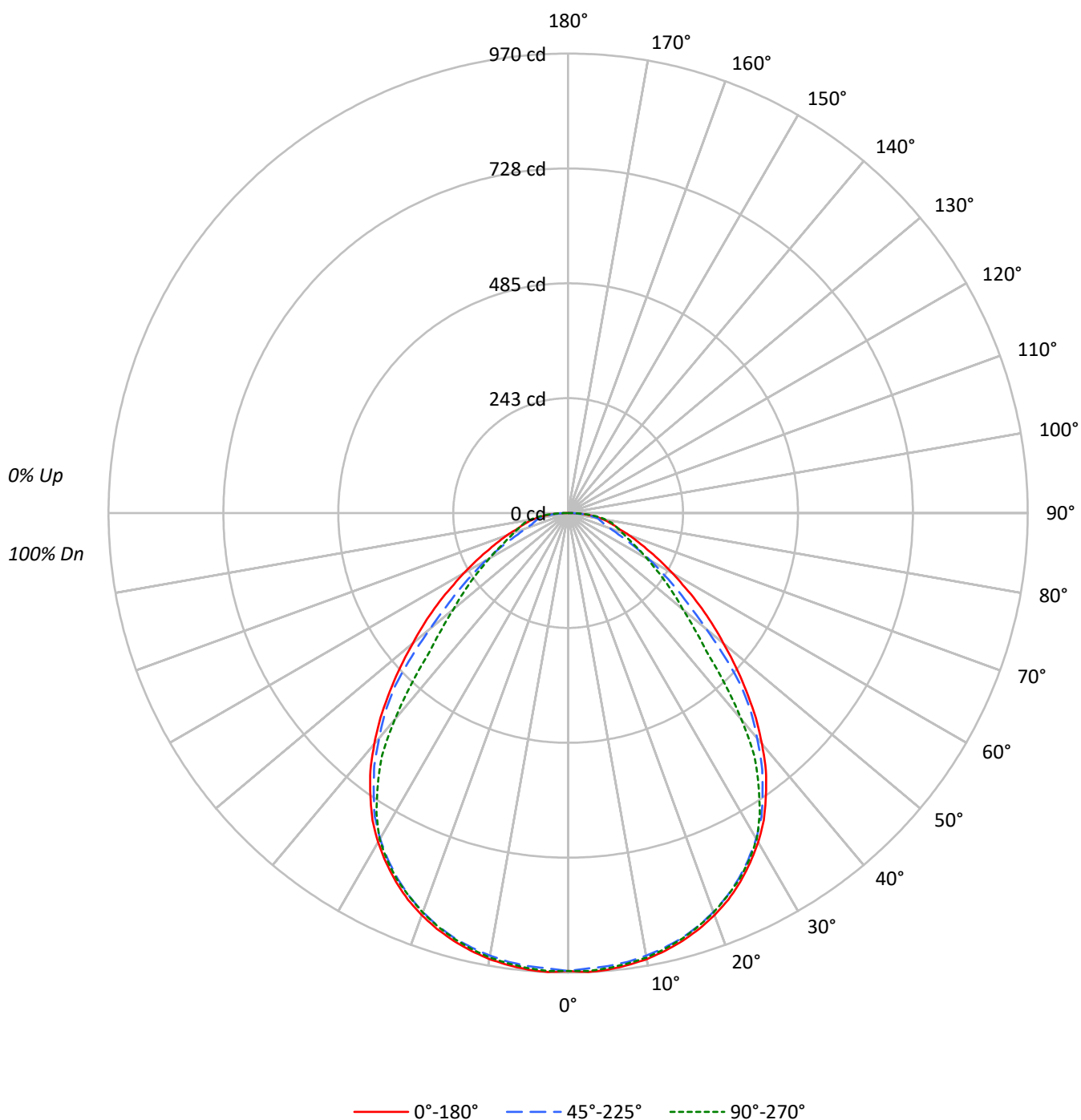
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2601	2601	2601
5°	2613	2593	2605
10°	2613	2593	2604
15°	2604	2587	2591
20°	2586	2566	2569
25°	2552	2528	2536
30°	2493	2466	2472
35°	2391	2350	2300
40°	2235	2180	2001
45°	2023	1965	1569
50°	1790	1590	1322
55°	1584	1307	1166
60°	1367	1082	1034
65°	1189	860	951
70°	1075	739	951
75°	1032	771	1063
80°	1150	982	1241
85°	1213	1047	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	4.3
10°-20°	262.7	12.4
20°-30°	393.2	18.6
30°-40°	445.1	21.0
40°-50°	379.1	17.9
50°-60°	256.7	12.1
60°-70°	153.3	7.2
70°-80°	95.8	4.5
80°-90°	40.5	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°	747.6	35.3
0°-40°	1192.7	56.3
0°-60°	1828.5	86.3
0°-90°	2118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	968	965	960	966	964	92
15°	935	931	929	935	930	264
25°	859	857	852	856	854	395
35°	728	723	715	708	700	454
45°	532	533	516	440	412	410
55°	338	319	279	249	249	302
65°	187	156	135	144	149	188
75°	99	89	74	97	102	107
85°	39	36	34	43	48	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.5	966.5	966.5	966.5	966.5
2.5°	969.9	967.5	962.1	968.5	967.5
5°	967.5	965.0	960.1	966.0	964.5
7.5°	962.6	960.1	955.7	961.6	959.1
10°	956.2	953.2	948.8	955.2	952.8
12.5°	946.4	943.4	939.5	945.9	942.4
15°	934.6	931.1	928.7	934.6	930.1
17.5°	920.3	917.4	913.9	919.8	914.9
20°	903.1	900.7	896.2	899.7	897.2
22.5°	883.5	880.0	875.6	879.5	876.1
25°	859.4	856.9	851.5	855.5	854.0
27.5°	831.9	830.4	824.0	828.9	826.5
30°	802.4	798.5	793.6	795.0	795.5
32.5°	768.5	763.6	759.6	756.2	752.8
35°	727.7	723.3	715.4	708.1	700.2
37.5°	685.5	679.6	671.7	655.5	645.7
40°	636.3	633.4	620.6	598.0	569.5
42.5°	586.2	583.2	571.9	521.3	490.4
45°	531.7	533.1	516.4	440.3	412.3
47.5°	479.6	483.5	447.1	375.9	361.2
50°	427.5	431.9	379.8	324.8	315.9
52.5°	381.8	378.3	323.8	285.0	281.1
55°	337.6	318.9	278.6	248.6	248.6
57.5°	292.4	265.8	236.8	217.7	217.7
60°	254.0	221.1	201.0	188.2	192.1
62.5°	218.7	183.8	166.6	164.1	169.0
65°	186.7	155.8	135.1	144.5	149.4
67.5°	160.7	133.2	111.0	130.7	133.7
70°	136.6	116.0	93.9	120.4	120.9
72.5°	114.5	102.2	80.6	109.1	111.0
75°	99.3	88.9	74.2	97.3	102.2
77.5°	87.0	76.2	68.3	84.0	93.4
80°	74.2	62.4	63.4	70.8	80.1
82.5°	57.0	48.2	50.1	58.0	65.4
85°	39.3	36.4	33.9	42.7	48.2
87.5°	21.1	19.7	17.2	24.1	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)