

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: P291285

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291285
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1966.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

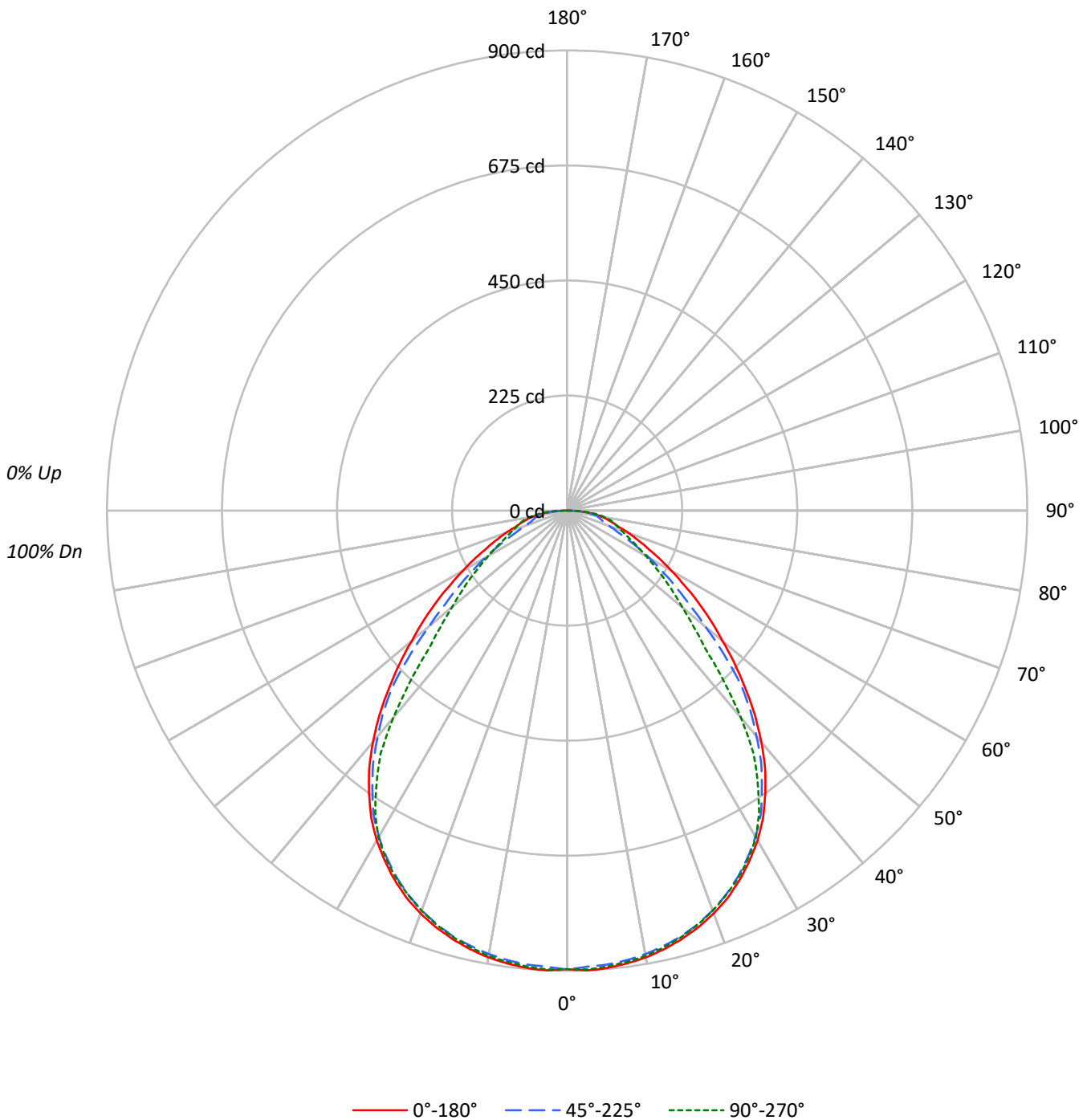
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2414	2414	2414
5°	2426	2407	2418
10°	2425	2407	2417
15°	2417	2401	2405
20°	2401	2382	2385
25°	2369	2347	2354
30°	2314	2289	2294
35°	2219	2182	2135
40°	2075	2024	1857
45°	1878	1824	1456
50°	1661	1476	1228
55°	1470	1213	1083
60°	1269	1004	960
65°	1103	798	883
70°	998	685	883
75°	958	716	987
80°	1068	911	1151
85°	1127	973	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	4.3
10°-20°	243.9	12.4
20°-30°	365.0	18.6
30°-40°	413.1	21.0
40°-50°	351.9	17.9
50°-60°	238.3	12.1
60°-70°	142.3	7.2
70°-80°	88.9	4.5
80°-90°	37.6	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°	693.9	35.3
0°-40°	1107.1	56.3
0°-60°	1697.3	86.3
0°-90°	1966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	898	896	891	897	895	85
15°	868	864	862	868	863	245
25°	798	795	790	794	793	367
35°	676	671	664	657	650	421
45°	494	495	479	409	383	381
55°	313	296	259	231	231	280
65°	173	145	125	134	139	175
75°	92	83	69	90	95	99
85°	36	34	32	40	45	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.1	897.1	897.1	897.1	897.1
2.5°	900.3	898.1	893.0	899.0	898.1
5°	898.1	895.8	891.2	896.7	895.3
7.5°	893.5	891.2	887.1	892.6	890.3
10°	887.6	884.8	880.7	886.7	884.4
12.5°	878.4	875.7	872.1	878.0	874.8
15°	867.5	864.3	862.0	867.5	863.4
17.5°	854.3	851.5	848.3	853.8	849.3
20°	838.3	836.0	831.9	835.1	832.8
22.5°	820.1	816.9	812.8	816.4	813.2
25°	797.7	795.4	790.4	794.1	792.7
27.5°	772.2	770.8	764.9	769.4	767.2
30°	744.8	741.2	736.6	738.0	738.4
32.5°	713.3	708.8	705.1	701.9	698.7
35°	675.5	671.4	664.1	657.2	649.9
37.5°	636.3	630.8	623.5	608.4	599.3
40°	590.6	587.9	576.1	555.1	528.6
42.5°	544.1	541.4	530.9	483.9	455.2
45°	493.5	494.9	479.4	408.7	382.7
47.5°	445.2	448.8	415.1	348.9	335.2
50°	396.8	400.9	352.6	301.5	293.3
52.5°	354.4	351.2	300.6	264.5	260.9
55°	313.3	296.0	258.6	230.8	230.8
57.5°	271.4	246.7	219.8	202.1	202.1
60°	235.8	205.2	186.5	174.7	178.3
62.5°	203.0	170.6	154.6	152.3	156.9
65°	173.3	144.6	125.4	134.1	138.7
67.5°	149.1	123.6	103.1	121.3	124.1
70°	126.8	107.6	87.1	111.7	112.2
72.5°	106.3	94.9	74.8	101.3	103.1
75°	92.1	82.6	68.9	90.3	94.9
77.5°	80.7	70.7	63.4	78.0	86.7
80°	68.9	57.9	58.8	65.7	74.3
82.5°	52.9	44.7	46.5	53.8	60.7
85°	36.5	33.8	31.5	39.7	44.7
87.5°	19.6	18.2	16.0	22.3	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)