

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: P291181

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291181
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1969.0 lumens
Efficiency: N/A
Efficacy: 127.5 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

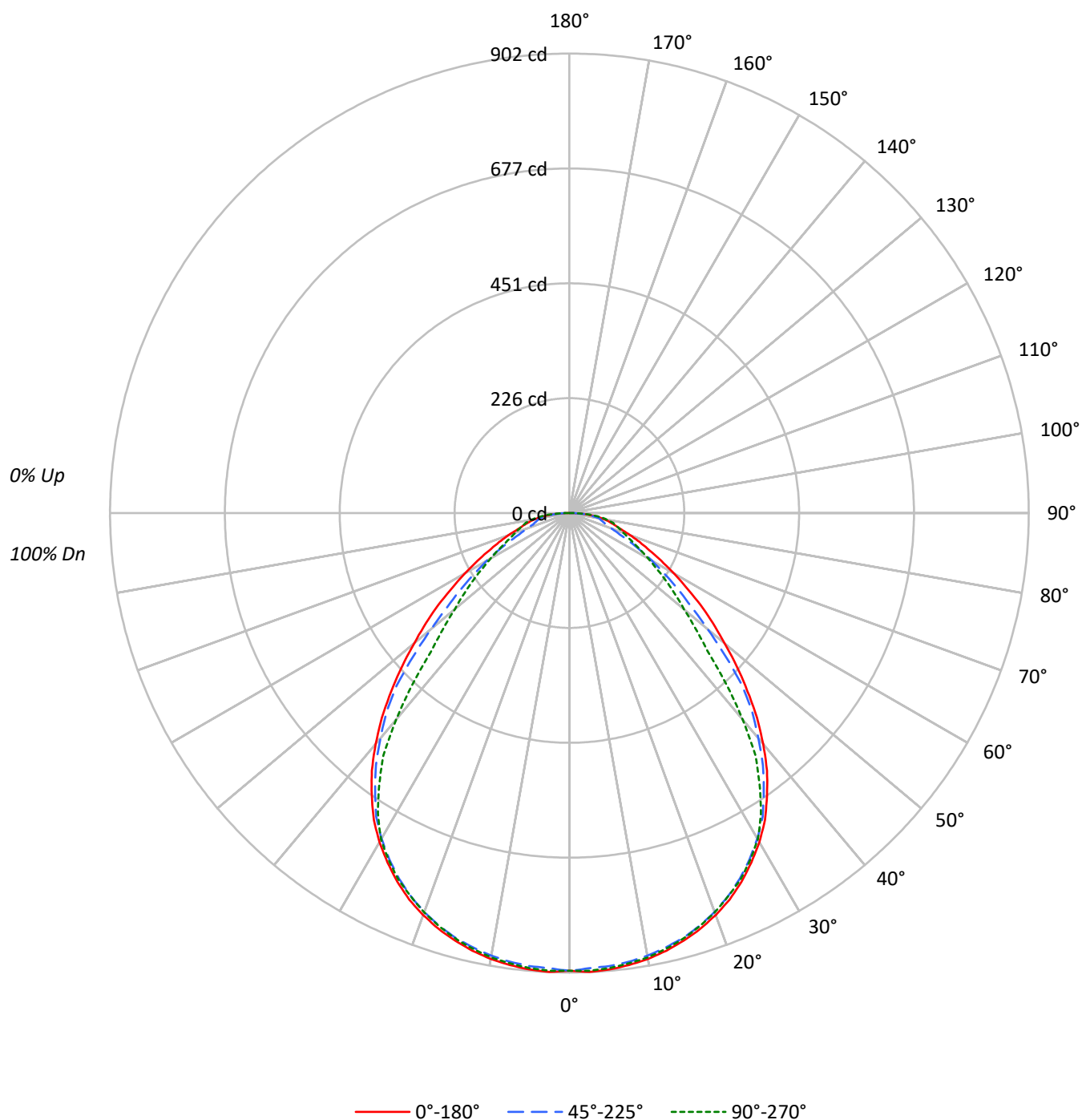
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	52	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°	2418	2418	2418
5°	2430	2411	2422
10°	2429	2410	2420
15°	2420	2405	2409
20°	2404	2386	2389
25°	2372	2350	2357
30°	2318	2292	2298
35°	2222	2185	2138
40°	2078	2027	1860
45°	1881	1827	1459
50°	1664	1478	1230
55°	1472	1215	1084
60°	1271	1005	961
65°	1105	800	884
70°	999	686	884
75°	960	717	988
80°	1069	913	1155
85°	1127	973	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	4.3
10°-20°	244.2	12.4
20°-30°	365.5	18.6
30°-40°	413.8	21.0
40°-50°	352.5	17.9
50°-60°	238.6	12.1
60°-70°	142.5	7.2
70°-80°	89.0	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°	695.0	35.3
0°-40°	1108.8	56.3
0°-60°	1699.9	86.3
0°-90°	1969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	899	897	893	898	897	85
15°	869	866	863	869	865	245
25°	799	797	792	795	794	367
35°	676	672	665	658	651	422
45°	494	496	480	409	383	381
55°	314	296	259	231	231	281
65°	174	145	126	134	139	175
75°	92	83	69	90	95	100
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°	898.5	898.5	898.5	898.5	898.5
2.5°	901.7	899.4	894.4	900.3	899.4
5°	899.4	897.1	892.6	898.1	896.7
7.5°	894.9	892.6	888.5	893.9	891.7
10°	888.9	886.2	882.1	888.0	885.7
12.5°	879.8	877.0	873.4	879.3	876.1
15°	868.8	865.6	863.3	868.8	864.7
17.5°	855.6	852.8	849.6	855.1	850.6
20°	839.6	837.3	833.2	836.4	834.1
22.5°	821.3	818.1	814.0	817.7	814.5
25°	798.9	796.7	791.6	795.3	793.9
27.5°	773.4	772.0	766.0	770.6	768.3
30°	745.9	742.3	737.7	739.1	739.6
32.5°	714.4	709.9	706.2	703.0	699.8
35°	676.5	672.4	665.1	658.2	650.9
37.5°	637.2	631.7	624.4	609.4	600.2
40°	591.6	588.8	576.9	555.9	529.4
42.5°	545.0	542.2	531.7	484.7	455.9
45°	494.3	495.6	480.1	409.3	383.3
47.5°	445.8	449.5	415.7	349.4	335.7
50°	397.4	401.5	353.1	301.9	293.7
52.5°	354.9	351.7	301.0	264.9	261.3
55°	313.8	296.5	259.0	231.1	231.1
57.5°	271.8	247.1	220.2	202.4	202.4
60°	236.2	205.6	186.8	175.0	178.6
62.5°	203.3	170.8	154.9	152.6	157.1
65°	173.6	144.8	125.6	134.3	138.9
67.5°	149.4	123.8	103.2	121.5	124.2
70°	127.0	107.8	87.2	111.9	112.4
72.5°	106.4	95.0	74.9	101.4	103.2
75°	92.3	82.7	69.0	90.4	95.0
77.5°	80.9	70.8	63.5	78.1	86.8
80°	69.0	58.0	58.9	65.8	74.5
82.5°	53.0	44.8	46.6	53.9	60.8
85°	36.5	33.8	31.5	39.7	44.8
87.5°	19.6	18.3	16.0	22.4	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)