

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: P291185

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291185
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2147.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

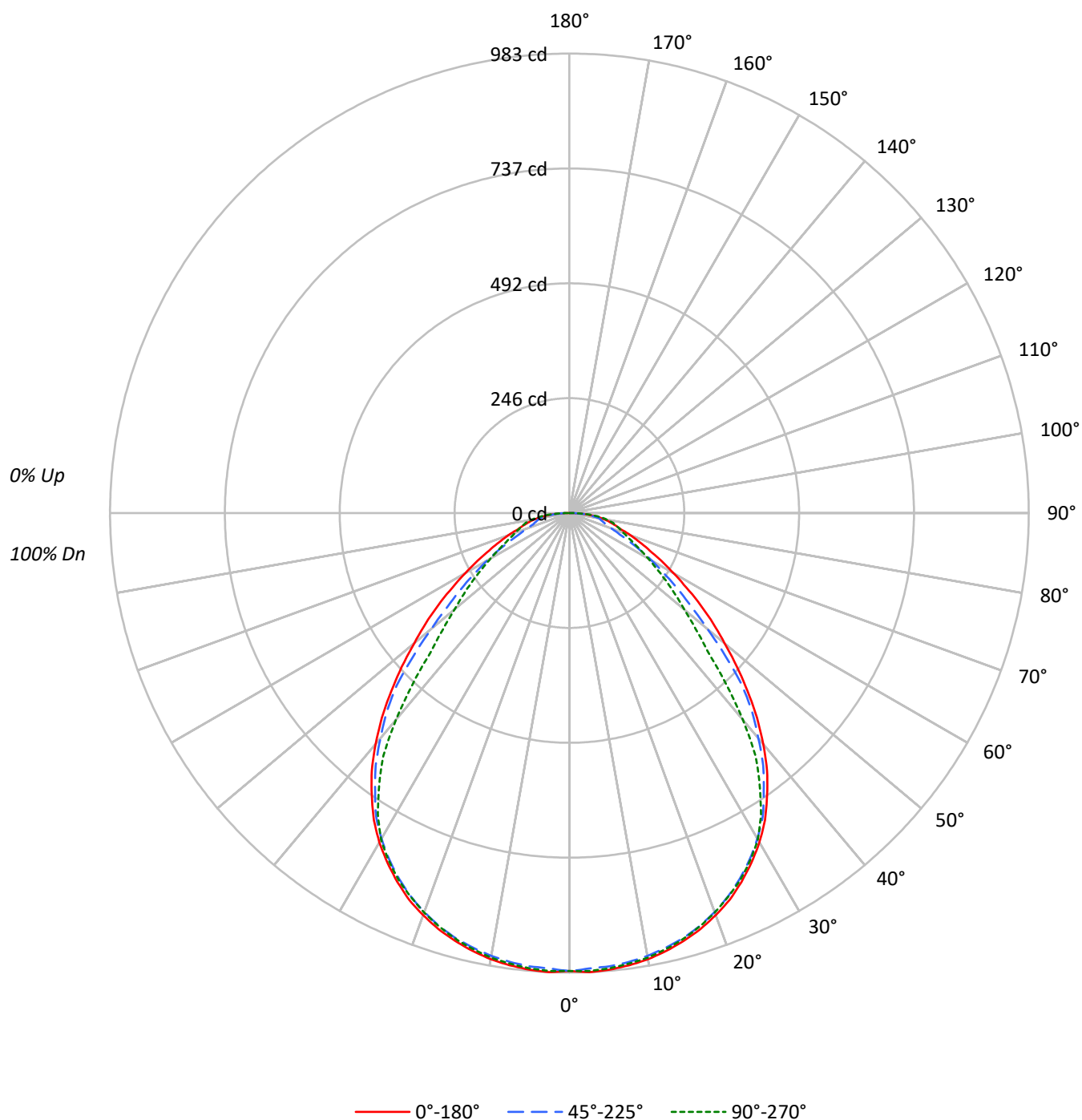
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2636	2636	2636
5°	2649	2629	2641
10°	2649	2628	2639
15°	2639	2623	2627
20°	2622	2602	2605
25°	2587	2563	2570
30°	2527	2499	2506
35°	2423	2382	2332
40°	2266	2210	2028
45°	2051	1992	1590
50°	1814	1612	1341
55°	1605	1325	1182
60°	1386	1096	1048
65°	1205	872	964
70°	1090	748	964
75°	1046	782	1077
80°	1165	996	1258
85°	1229	1062	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	4.3
10°-20°	266.3	12.4
20°-30°	398.6	18.6
30°-40°	451.2	21.0
40°-50°	384.3	17.9
50°-60°	260.2	12.1
60°-70°	155.4	7.2
70°-80°	97.1	4.5
80°-90°	41.0	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°	757.8	35.3
0°-40°	1209.0	56.3
0°-60°	1853.6	86.3
0°-90°	2147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	981	978	973	979	978	93
15°	947	944	941	947	943	267
25°	871	869	863	867	866	401
35°	738	733	725	718	710	460
45°	539	540	524	446	418	416
55°	342	323	282	252	252	306
65°	189	158	137	146	151	191
75°	101	90	75	99	104	109
85°	40	37	34	43	49	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.7	979.7	979.7	979.7	979.7
2.5°	983.2	980.7	975.3	981.7	980.7
5°	980.7	978.2	973.3	979.2	977.8
7.5°	975.8	973.3	968.8	974.8	972.3
10°	969.3	966.3	961.8	968.3	965.8
12.5°	959.3	956.3	952.3	958.8	955.3
15°	947.4	943.9	941.4	947.4	942.9
17.5°	932.9	929.9	926.4	932.4	927.4
20°	915.5	913.0	908.5	912.0	909.5
22.5°	895.6	892.1	887.6	891.6	888.1
25°	871.2	868.7	863.2	867.2	865.7
27.5°	843.3	841.8	835.3	840.3	837.8
30°	813.4	809.4	804.4	805.9	806.4
32.5°	779.0	774.0	770.0	766.6	763.1
35°	737.7	733.2	725.2	717.7	709.8
37.5°	694.8	688.9	680.9	664.5	654.5
40°	645.0	642.0	629.1	606.2	577.3
42.5°	594.2	591.2	579.8	528.5	497.1
45°	538.9	540.4	523.5	446.3	417.9
47.5°	486.1	490.1	453.3	381.0	366.1
50°	433.3	437.8	385.0	329.2	320.3
52.5°	387.0	383.5	328.2	288.9	284.9
55°	342.2	323.3	282.4	252.0	252.0
57.5°	296.4	269.5	240.1	220.7	220.7
60°	257.5	224.1	203.7	190.8	194.8
62.5°	221.7	186.3	168.9	166.4	171.3
65°	189.3	157.9	137.0	146.4	151.4
67.5°	162.9	135.0	112.6	132.5	135.5
70°	138.5	117.5	95.1	122.0	122.5
72.5°	116.1	103.6	81.7	110.6	112.6
75°	100.6	90.2	75.2	98.6	103.6
77.5°	88.2	77.2	69.2	85.2	94.6
80°	75.2	63.3	64.3	71.7	81.2
82.5°	57.8	48.8	50.8	58.8	66.2
85°	39.8	36.9	34.4	43.3	48.8
87.5°	21.4	19.9	17.4	24.4	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)