

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: P291146

Luminaire Tested: **14GR-LD5-20-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291146
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2085.0 lumens
Efficiency: N/A
Efficacy: 134.2 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

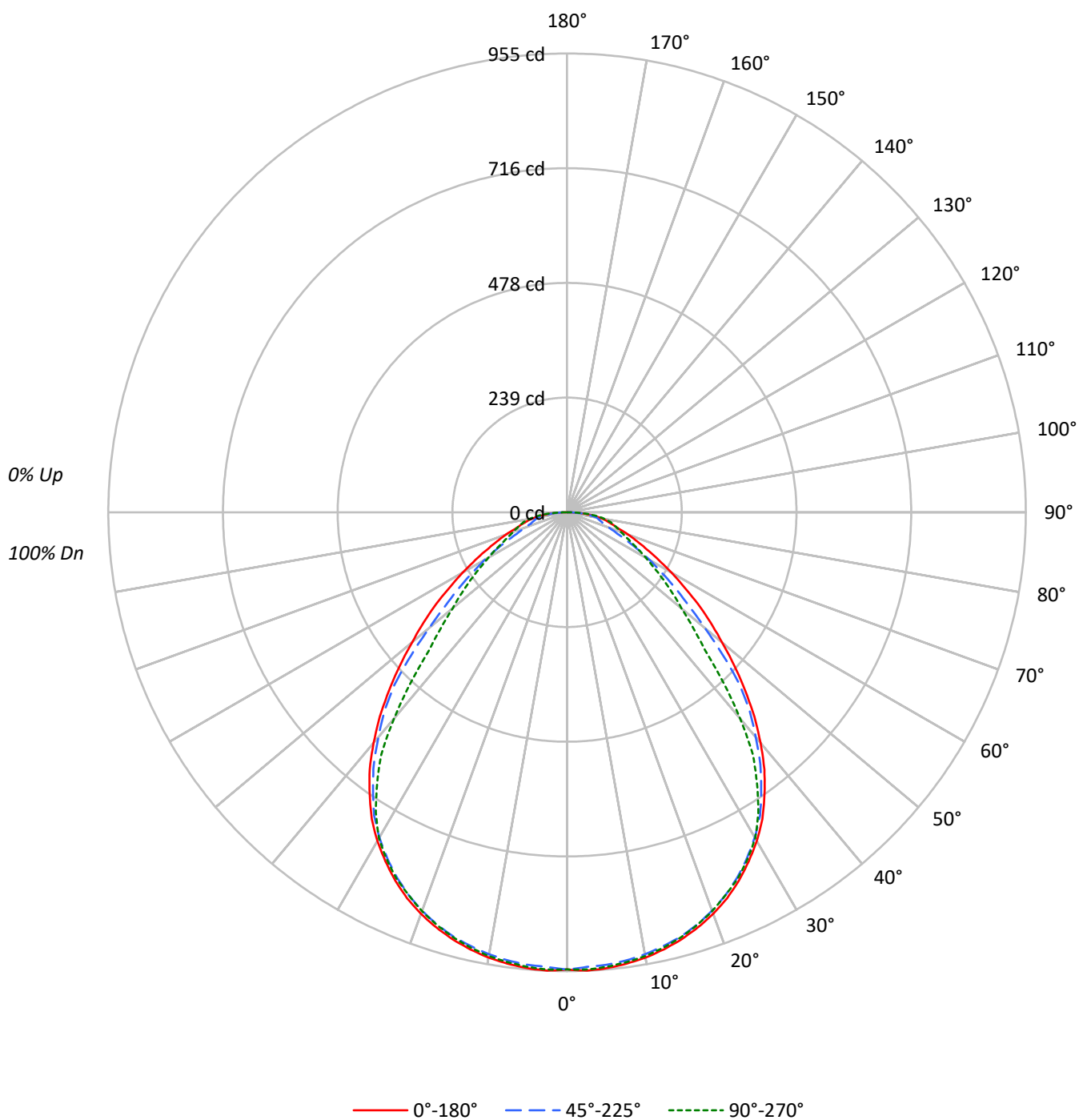
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2560	2560	2560
5°	2573	2553	2565
10°	2572	2552	2563
15°	2563	2547	2551
20°	2546	2527	2529
25°	2512	2489	2496
30°	2454	2427	2433
35°	2353	2314	2264
40°	2200	2146	1969
45°	1992	1935	1544
50°	1762	1565	1302
55°	1559	1287	1148
60°	1346	1065	1018
65°	1170	847	936
70°	1058	727	936
75°	1016	759	1046
80°	1131	967	1221
85°	1195	1031	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	4.3
10°-20°	258.6	12.4
20°-30°	387.1	18.6
30°-40°	438.2	21.0
40°-50°	373.2	17.9
50°-60°	252.7	12.1
60°-70°	150.9	7.2
70°-80°	94.3	4.5
80°-90°	39.8	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°	736.0	35.3
0°-40°	1174.1	56.3
0°-60°	1800.0	86.3
0°-90°	2085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	952	950	945	951	950	91
15°	920	917	914	920	916	260
25°	846	844	838	842	841	389
35°	716	712	704	697	689	447
45°	523	525	508	433	406	404
55°	332	314	274	245	245	297
65°	184	153	133	142	147	185
75°	98	88	73	96	101	105
85°	39	36	33	42	47	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.5	951.5	951.5	951.5	951.5
2.5°	954.8	952.4	947.1	953.4	952.4
5°	952.4	950.0	945.2	951.0	949.5
7.5°	947.6	945.2	940.8	946.6	944.2
10°	941.3	938.4	934.0	940.3	937.9
12.5°	931.6	928.7	924.8	931.1	927.7
15°	920.0	916.6	914.2	920.0	915.7
17.5°	906.0	903.1	899.7	905.5	900.7
20°	889.1	886.6	882.3	885.7	883.2
22.5°	869.7	866.3	862.0	865.8	862.4
25°	846.0	843.6	838.3	842.1	840.7
27.5°	818.9	817.5	811.2	816.0	813.6
30°	789.9	786.0	781.2	782.6	783.1
32.5°	756.5	751.7	747.8	744.4	741.0
35°	716.4	712.0	704.3	697.0	689.3
37.5°	674.8	669.0	661.2	645.3	635.6
40°	626.4	623.5	610.9	588.7	560.6
42.5°	577.1	574.2	563.0	513.2	482.7
45°	523.4	524.8	508.4	433.4	405.8
47.5°	472.1	476.0	440.2	370.0	355.5
50°	420.8	425.2	373.9	319.7	311.0
52.5°	375.8	372.5	318.8	280.5	276.7
55°	332.3	313.9	274.3	244.8	244.8
57.5°	287.8	261.7	233.1	214.3	214.3
60°	250.1	217.7	197.8	185.3	189.1
62.5°	215.2	180.9	164.0	161.6	166.4
65°	183.8	153.3	133.0	142.2	147.0
67.5°	158.2	131.1	109.3	128.7	131.6
70°	134.5	114.2	92.4	118.5	119.0
72.5°	112.7	100.6	79.3	107.4	109.3
75°	97.7	87.6	73.0	95.8	100.6
77.5°	85.6	75.0	67.2	82.7	91.9
80°	73.0	61.4	62.4	69.7	78.8
82.5°	56.1	47.4	49.3	57.1	64.3
85°	38.7	35.8	33.4	42.1	47.4
87.5°	20.8	19.3	16.9	23.7	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)