

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: P291149

Luminaire Tested: **14GR-LD5-20-A125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291149
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-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: 2211.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

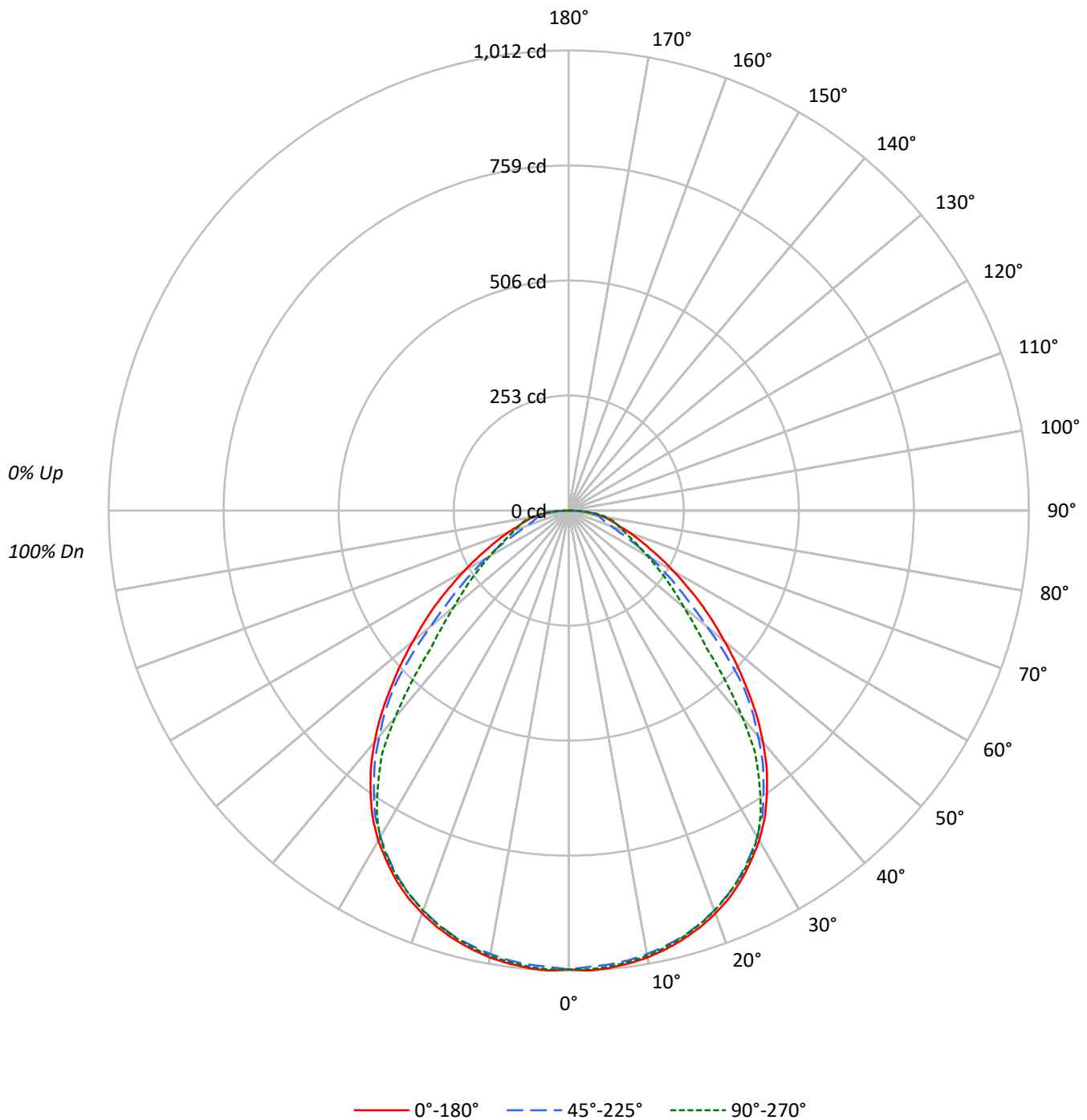
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	2715	2715	2715
5°	2728	2707	2720
10°	2728	2707	2718
15°	2718	2701	2705
20°	2700	2679	2682
25°	2664	2639	2647
30°	2603	2574	2580
35°	2496	2453	2401
40°	2334	2276	2088
45°	2112	2052	1638
50°	1868	1660	1381
55°	1653	1364	1217
60°	1427	1129	1080
65°	1241	898	993
70°	1122	771	993
75°	1077	806	1109
80°	1201	1026	1296
85°	1266	1093	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	4.3
10°-20°	274.3	12.4
20°-30°	410.5	18.6
30°-40°	464.6	21.0
40°-50°	395.8	17.9
50°-60°	268.0	12.1
60°-70°	160.0	7.2
70°-80°	100.0	4.5
80°-90°	42.3	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°	780.4	35.3
0°-40°	1245.1	56.3
0°-60°	1908.8	86.3
0°-90°	2211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1010	1007	1002	1008	1007	96
15°	976	972	970	976	971	275
25°	897	895	889	893	892	413
35°	760	755	747	739	731	473
45°	555	556	539	460	430	428
55°	352	333	291	260	260	315
65°	195	163	141	151	156	196
75°	104	93	78	102	107	112
85°	41	38	35	45	50	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1012.5	1010.0	1004.3	1011.0	1010.0
5°	1010.0	1007.4	1002.3	1008.4	1006.9
7.5°	1004.8	1002.3	997.7	1003.8	1001.3
10°	998.2	995.1	990.5	997.2	994.6
12.5°	987.9	984.8	980.7	987.4	983.8
15°	975.6	972.0	969.5	975.6	971.0
17.5°	960.7	957.7	954.1	960.2	955.1
20°	942.8	940.2	935.6	939.2	936.6
22.5°	922.3	918.7	914.1	918.2	914.6
25°	897.1	894.6	888.9	893.0	891.5
27.5°	868.4	866.9	860.2	865.3	862.8
30°	837.6	833.5	828.4	829.9	830.4
32.5°	802.2	797.1	793.0	789.4	785.8
35°	759.7	755.0	746.8	739.1	730.9
37.5°	715.5	709.4	701.2	684.3	674.0
40°	664.3	661.2	647.8	624.2	594.5
42.5°	611.9	608.9	597.1	544.2	511.9
45°	555.0	556.5	539.1	459.6	430.4
47.5°	500.6	504.7	466.8	392.4	377.0
50°	446.3	450.9	396.5	339.1	329.8
52.5°	398.6	395.0	338.0	297.5	293.4
55°	352.4	332.9	290.8	259.5	259.5
57.5°	305.2	277.5	247.2	227.2	227.2
60°	265.2	230.8	209.8	196.5	200.6
62.5°	228.3	191.8	173.9	171.3	176.5
65°	194.9	162.6	141.1	150.8	155.9
67.5°	167.7	139.0	115.9	136.4	139.5
70°	142.6	121.1	98.0	125.7	126.2
72.5°	119.5	106.7	84.1	113.9	115.9
75°	103.6	92.8	77.5	101.6	106.7
77.5°	90.8	79.5	71.3	87.7	97.5
80°	77.5	65.1	66.2	73.9	83.6
82.5°	59.5	50.3	52.3	60.5	68.2
85°	41.0	38.0	35.4	44.6	50.3
87.5°	22.1	20.5	18.0	25.1	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)