

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: P290887

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

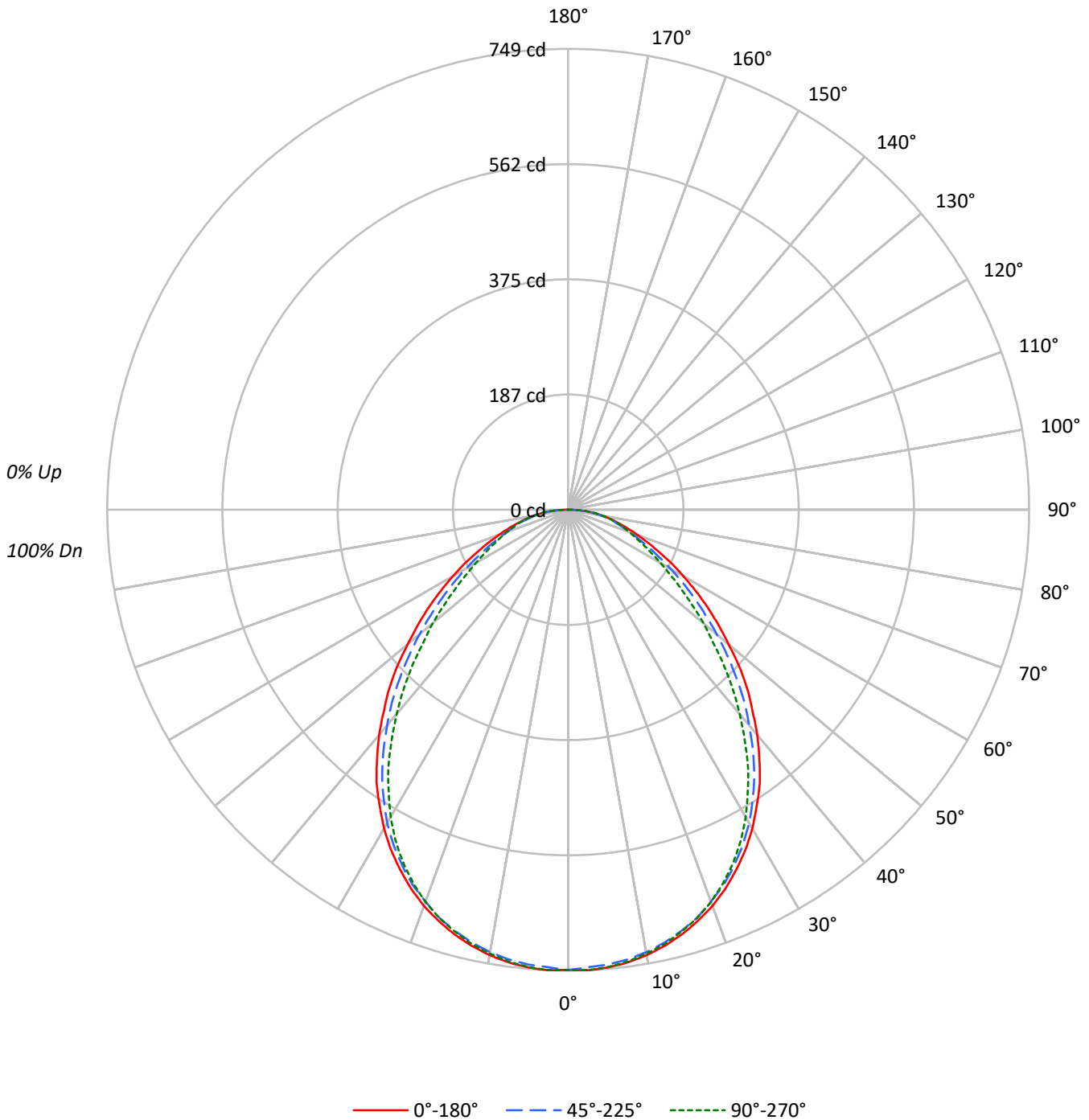
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2013	2013	2013
5°	2017	2005	2015
10°	2008	1995	2002
15°	1991	1975	1979
20°	1962	1941	1942
25°	1918	1894	1882
30°	1859	1827	1793
35°	1783	1731	1674
40°	1679	1607	1523
45°	1566	1471	1362
50°	1424	1320	1203
55°	1296	1171	1048
60°	1163	1031	931
65°	1037	918	856
70°	943	837	828
75°	881	815	857
80°	885	843	891
85°	926	865	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	4.2
10°-20°	200.5	11.9
20°-30°	294.0	17.5
30°-40°	328.1	19.5
40°-50°	297.1	17.7
50°-60°	224.3	13.4
60°-70°	146.6	8.7
70°-80°	86.1	5.1
80°-90°	31.5	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°	565.2	33.7
0°-40°	893.3	53.2
0°-60°	1414.7	84.3
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	747	745	742	746	746	71
15°	714	713	709	713	710	201
25°	646	644	638	637	634	297
35°	543	538	527	515	510	338
45°	411	405	387	366	358	316
55°	276	270	250	230	223	247
65°	163	158	144	136	134	163
75°	85	82	78	80	82	91
85°	30	29	28	32	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.0	748.0	748.0	748.0	748.0
2.5°	749.2	748.0	744.4	749.2	748.8
5°	746.8	745.2	742.1	746.4	746.0
7.5°	742.1	740.5	737.3	741.3	740.5
10°	735.0	733.4	730.2	734.6	732.6
12.5°	725.9	724.3	720.8	724.7	723.2
15°	714.5	713.3	709.0	712.9	710.2
17.5°	700.7	698.7	695.6	697.9	696.0
20°	685.3	683.0	677.8	680.2	678.2
22.5°	666.8	663.6	660.1	660.1	657.3
25°	645.9	643.5	638.0	636.9	633.7
27.5°	623.5	621.5	614.4	612.4	606.9
30°	598.2	595.5	588.0	581.7	576.9
32.5°	570.2	568.3	558.0	549.8	543.1
35°	542.7	537.9	526.9	515.1	509.6
37.5°	510.3	506.8	493.0	478.4	470.9
40°	478.0	473.7	457.5	441.4	433.5
42.5°	443.0	439.0	423.6	404.3	396.1
45°	411.4	405.1	386.6	365.7	357.8
47.5°	376.8	370.1	350.3	328.3	319.2
50°	340.1	335.8	315.3	294.0	287.3
52.5°	307.4	300.7	281.4	260.5	253.4
55°	276.3	270.0	249.5	229.8	223.4
57.5°	245.1	238.0	220.3	202.6	196.3
60°	216.0	208.9	191.5	176.9	173.0
62.5°	189.6	181.7	166.3	154.9	152.1
65°	162.8	157.6	144.2	136.0	134.4
67.5°	140.3	134.0	123.4	119.4	118.6
70°	119.8	115.5	106.4	105.2	105.2
72.5°	101.3	97.7	91.0	91.8	93.0
75°	84.7	82.4	78.4	80.0	82.4
77.5°	70.5	68.2	65.8	68.2	69.8
80°	57.1	54.8	54.4	56.4	57.5
82.5°	43.0	41.0	41.4	44.5	45.7
85°	30.0	28.8	28.0	31.5	31.9
87.5°	15.4	14.6	14.2	16.9	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)