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7036 Snowdrift Road
Allentown, PA 18106
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Photometric Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Auroralight Inc
2742 Loker Avenue West
Carlsbad
CA, 92010
United States

Catalog Number
HPL7-3-30
Order Number
11745044
Test Number
11745044.18

Test Date

2017-05-15

Prepared By

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Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Conical 7" copper shade with clear glass lens, cylindrical copper stem and brass base
Lamp: 64 white LEDs
Mounting: Path/Area
Ballast/Driver: Integrated



Luminaire Characteristics

Luminous Diameter: 7.00 in.

Summary of Results

Roadway Classification: Type V, Very Short
Cutoff Classification: Semicutoff
BUG Rating: B0 U1 G0

Test Conditions

Test Temperature:	24.6 °C
Voltage:	12.00 VAC
Current:	0.4891 A
Power:	3.294 W
Power Factor:	0.561
Frequency:	60 Hz
Current THD:	78.9 %

Tested in 30 planes left side, 30 planes right side, left and right averaged
Vertical test increments are 2.5 degrees
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	12.00 VAC	0.4891 A	3.294 W	0.561	60 Hz	78.9 %

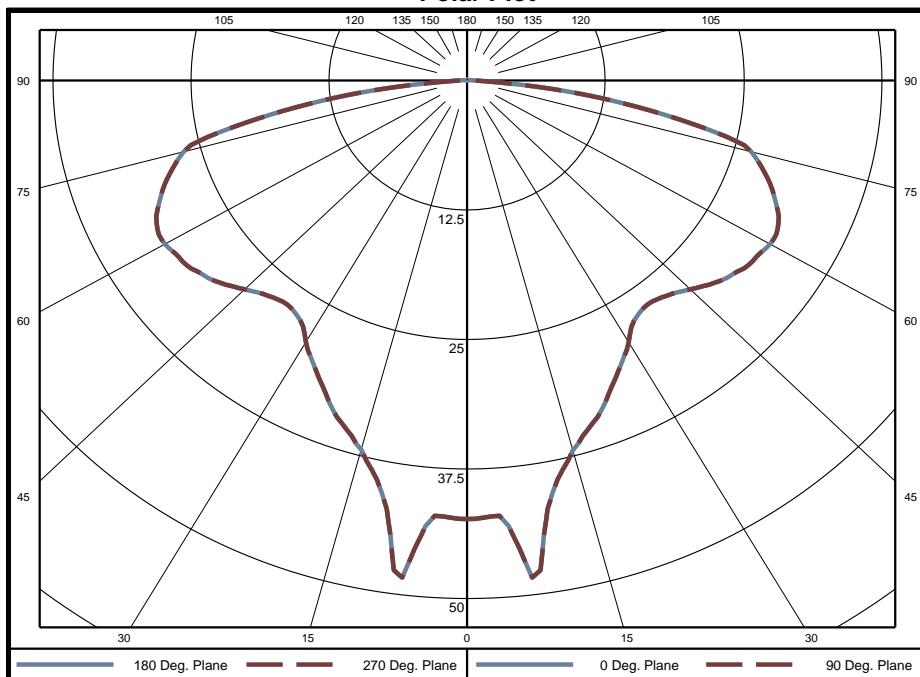
Summary of Results

Spacing Criteria

0-180: 1.05
90-270: 1.05

Total Lumen Output: 161.7 Lumens
Luminaire Efficacy: 49.1 lm/w
Maximum Candela: 48 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.01	0.6%	60-65	15.32	9.5%	120-125	0.02	0.0%
5-10	3.26	2.0%	65-70	15.27	9.4%	125-130	0.02	0.0%
10-15	4.63	2.9%	70-75	14.61	9.0%	130-135	0.02	0.0%
15-20	5.87	3.6%	75-80	12.07	7.5%	135-140	0.02	0.0%
20-25	6.94	4.3%	80-85	6.02	3.7%	140-145	0.02	0.0%
25-30	7.71	4.8%	85-90	1.08	0.7%	145-150	0.02	0.0%
30-35	8.24	5.1%	90-95	0.26	0.2%	150-155	0.01	0.0%
35-40	9.07	5.6%	95-100	0.11	0.1%	155-160	0.01	0.0%
40-45	10.32	6.4%	100-105	0.06	0.0%	160-165	0.01	0.0%
45-50	11.84	7.3%	105-110	0.04	0.0%	165-170	0.01	0.0%
50-55	13.29	8.2%	110-115	0.03	0.0%	170-175	0.00	0.0%
55-60	14.48	9.0%	115-120	0.03	0.0%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	47	28.9%
0-60	97	59.8%
0-90	161	99.6%
90-180	1	0.4%

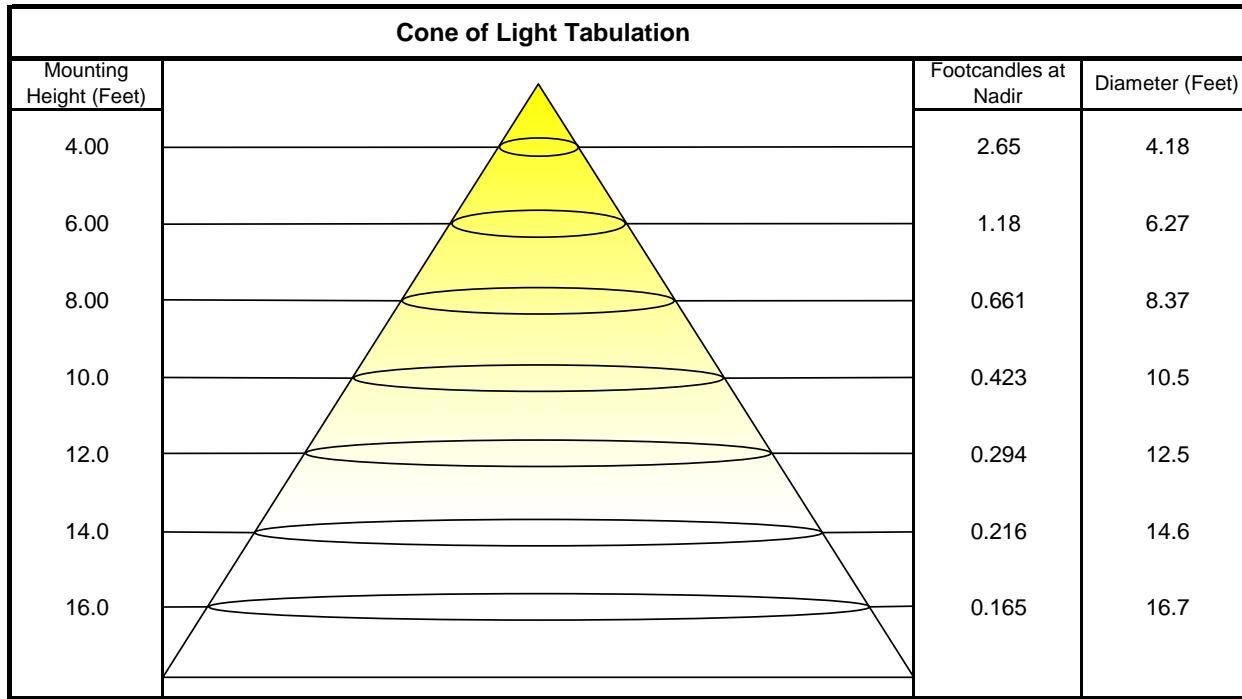


Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50				30				10			
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																			
0	192	192	192	192	188	188	188	188	179	179	179	172	172	172	164	164	164	161		
1	170	160	151	143	165	156	148	140	149	142	136	142	136	131	136	131	127	123		
2	151	134	120	108	146	131	118	107	124	114	104	119	110	102	113	106	99	95		
3	135	114	98	85	130	111	97	85	106	93	83	101	90	81	97	87	79	75		
4	122	99	82	70	118	97	81	69	92	79	68	88	76	67	84	74	66	61		
5	111	87	70	58	107	85	69	58	82	68	57	78	66	56	75	64	55	51		
6	102	78	61	50	99	76	61	49	73	59	49	70	58	48	67	56	48	44		
7	94	70	54	43	91	69	54	43	66	52	42	63	51	42	61	50	42	38		
8	88	64	48	38	85	62	48	38	60	47	38	58	46	37	56	45	37	33		
9	82	58	44	34	79	57	43	34	55	42	34	53	42	33	51	41	33	30		
10	77	54	40	31	74	53	39	31	51	39	30	49	38	30	48	37	30	27		

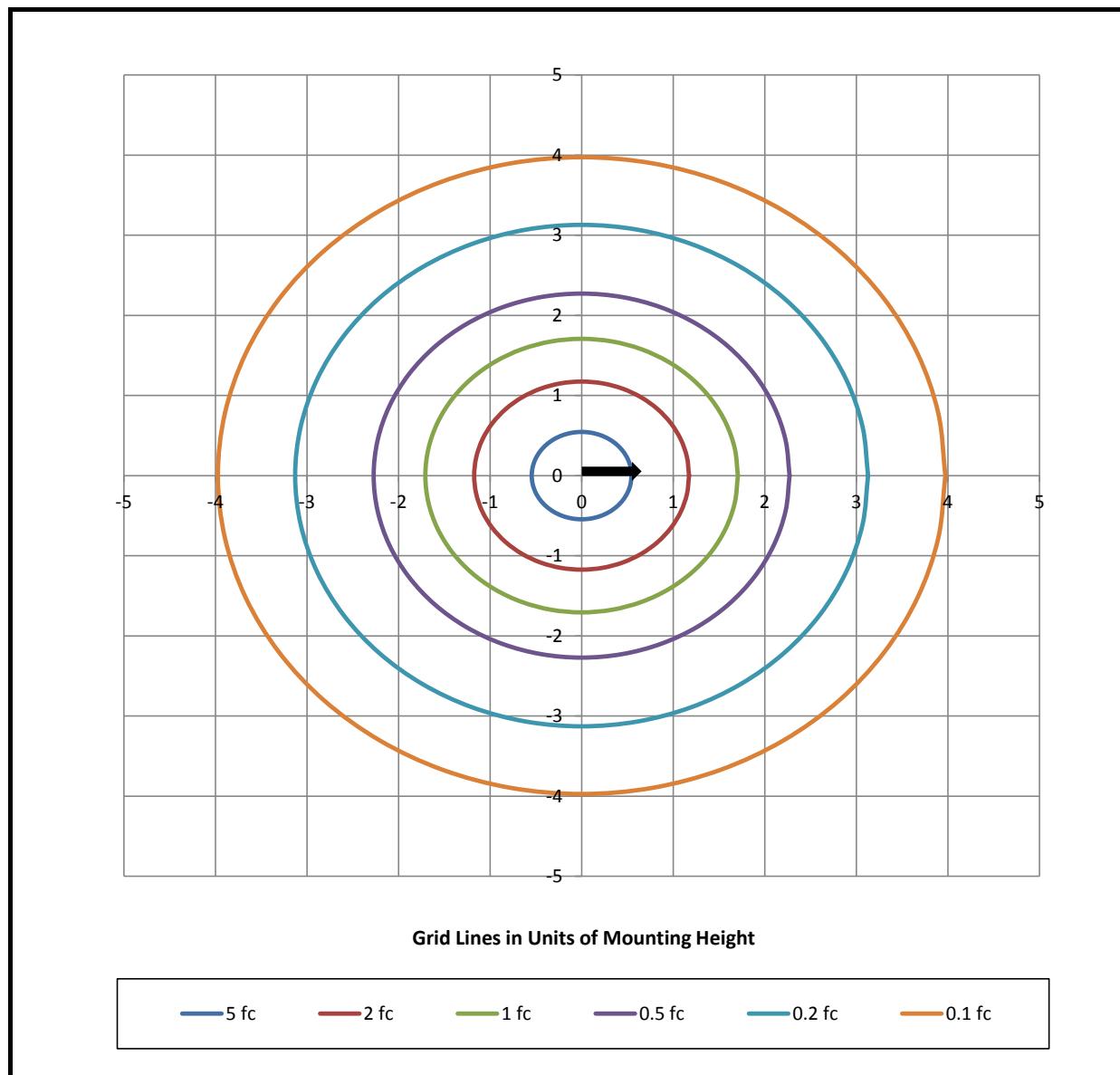
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	42.32 Candela
Central Cone Intensity:	42 Candela
Beam Flux:	150.3 Lumens
Beam Angle (0-180):	156.5 Degrees
Beam Angle (90-270):	156.5 Degrees
Field Angle (0-180):	170.9 Degrees
Field Angle (90-270):	170.9 Degrees





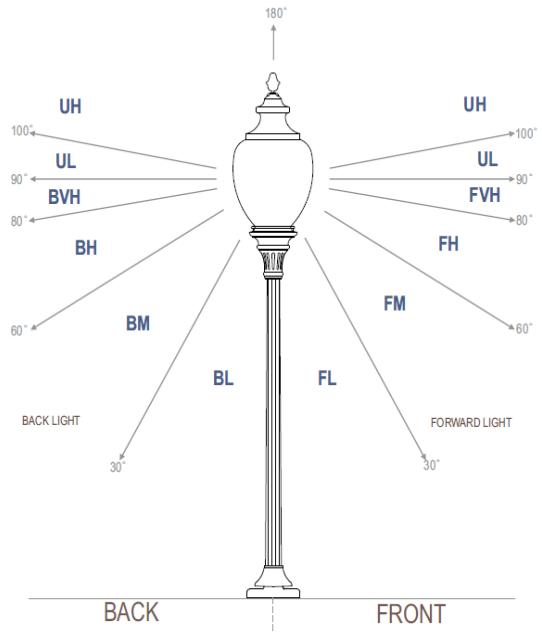
ISOFootcandle Plot

Mounting Height - 2 Feet





IES "BUG" Rating
(Back Light, Uplight, Glare)
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	14.7	9.1%
FM	(30-60)	33.6	20.8%
FH	(60-80)	28.6	17.7%
FVH	(80-90)	3.6	2.2%
BL	(0-30)	14.7	9.1%
BM	(30-60)	33.6	20.8%
BH	(60-80)	28.6	17.7%
BVH	(80-90)	3.6	2.2%
UL	(90-100)	0.4	0.2%
UH	(100-180)	0.3	0.2%
Total		161.8	100.0%
BUG Rating		B0 U1 G0	