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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 Ave W
#100
Carlsbad, CA 92010-6619
United States

Catalog Number
LWL3-6-M-30 (6W, 30° OPTIC, 3000K)

Order Number
13551695
Test Number
13551695.14

Test Date

2020-10-29

Prepared By

Javier Caban, Technician

Approved By

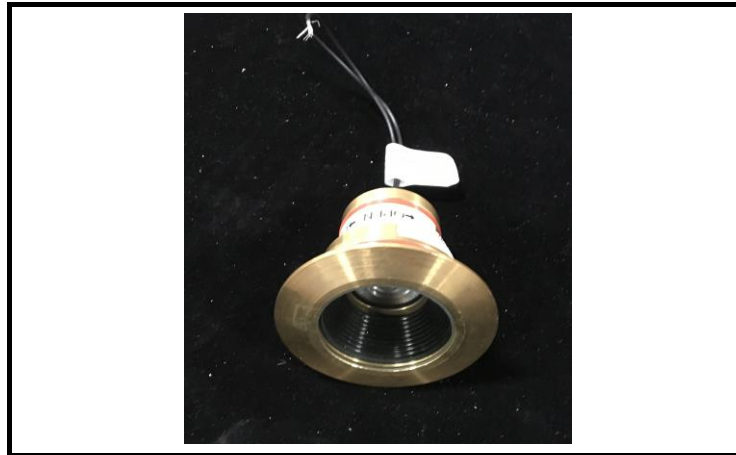
Alexa Lambert, Project Handler

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Luminaire Description: Cylindrical brass housing with circular brass faceplate and clear lens
Lamp: One (1) MHDE 3000K Cree LED
Mounting: Recessed
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.00 in.

Summary of Results

Roadway Classification: Type V, Very Short
Cutoff Classification: Full Cutoff
BUG Rating: B1 U0 G0

Test Conditions

Test Temperature: 24.4 °C
Voltage: 11.98 VAC
Current: 0.4604 A
Power: 5.483 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.22 %

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
24.4 °C	11.98 VAC	0.4604 A	5.483 W	0.999	60 Hz	4.22 %

Summary of Results

Spacing Criteria

0-180: 0.47

90-270: 0.47

Total Lumen Output:

355.6 Lumens

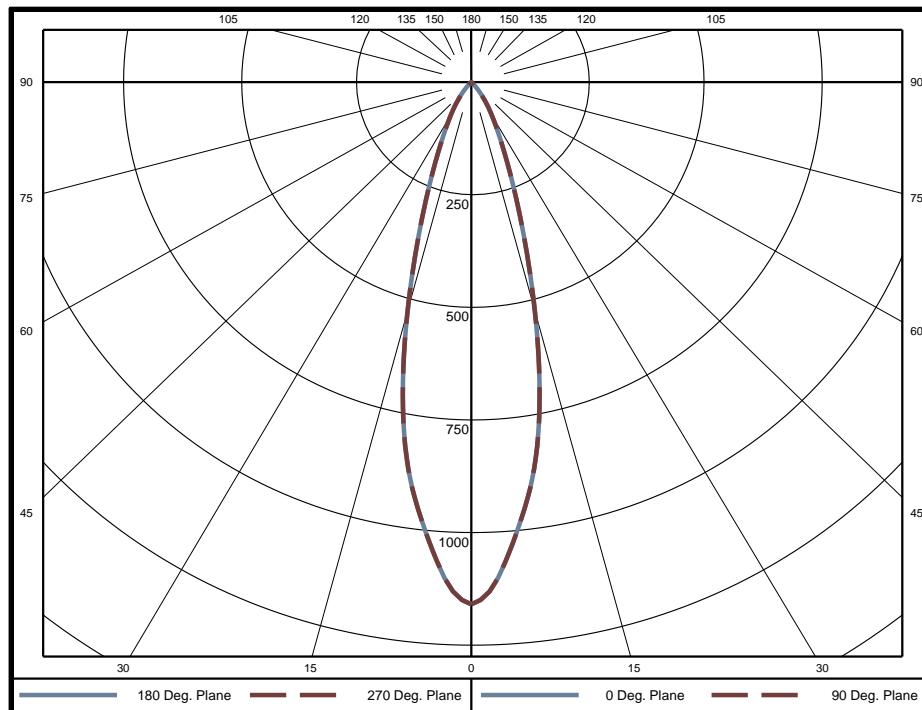
Luminaire Efficacy:

64.8 lm/w

Maximum Candela:

1159 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	25.98	7.3%	60-65	0	0.0%	120-125	0	0.0%
5-10	65.66	18.5%	65-70	0	0.0%	125-130	0	0.0%
10-15	79.40	22.3%	70-75	0	0.0%	130-135	0	0.0%
15-20	65.80	18.5%	75-80	0	0.0%	135-140	0	0.0%
20-25	46.09	13.0%	80-85	0	0.0%	140-145	0	0.0%
25-30	31.61	8.9%	85-90	0	0.0%	145-150	0	0.0%
30-35	21.50	6.0%	90-95	0	0.0%	150-155	0	0.0%
35-40	12.54	3.5%	95-100	0	0.0%	155-160	0	0.0%
40-45	5.21	1.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	1.46	0.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	0.36	0.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	0.01	0.0%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	349	98.0%
0-60	356	100.0%
0-90	356	100.0%
90-180	0	0.0%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
	0	1159	1159	1159	1159	1159	1159	1159	1159	1159	1159	1159	1159	1159	1159	1159
	5	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027
	10	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820
	15	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
	20	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295
	25	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163
	30	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
	35	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	40	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	45	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	572000	572000
	45	4959	4959
	55	191	191
	65	0	0
	75	0	0
	85	0	0



Utilization of Lumens - Zonal Cavity Method

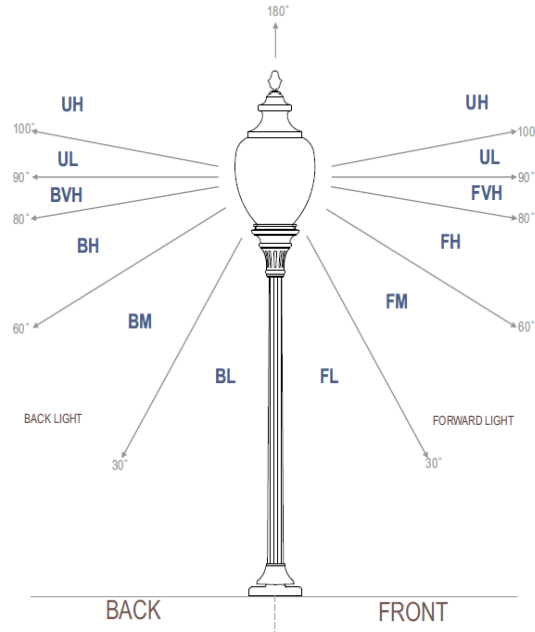
Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	423	423	423	423	414	414	414	414	395	395	395	378	378	378	363	363	363	356
1	408	399	392	385	399	392	385	379	377	372	368	364	360	357	352	349	346	340
2	392	378	366	356	385	372	361	352	361	352	345	351	344	338	341	336	331	325
3	378	359	345	334	371	354	341	331	345	335	326	337	328	321	330	322	316	311
4	364	342	327	315	358	338	324	313	331	319	309	324	314	306	318	310	302	298
5	350	327	310	298	345	324	308	297	318	305	295	312	301	292	307	298	290	285
6	338	313	296	284	333	310	295	283	306	292	281	301	289	280	297	286	278	274
7	326	300	283	272	322	298	282	271	294	280	270	290	278	268	287	276	267	263
8	315	289	272	260	312	287	271	260	283	269	259	280	267	258	277	266	257	253
9	305	278	261	250	302	276	261	250	273	259	249	271	258	248	268	256	248	244
10	295	268	252	241	292	267	251	241	264	250	240	262	249	240	259	248	239	235

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1159 Candela
Central Cone Intensity:	1107 Candela
Beam Flux:	157.9 Lumens
Beam Angle (0-180):	28.4 Degrees
Beam Angle (90-270):	28.4 Degrees
Field Angle (0-180):	56.3 Degrees
Field Angle (90-270):	56.3 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
6.00		32.2	2.85
10.0		11.6	4.75
14.0		5.91	6.65
18.0		3.58	8.54
22.0		2.40	10.4
26.0		1.71	12.3
30.0		1.29	14.2



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	157.3	44.2%
FM	(30-60)	20.6	5.8%
FH	(60-80)	0.0	0.0%
FVH	(80-90)	0.0	0.0%
BL	(0-30)	157.3	44.2%
BM	(30-60)	20.6	5.8%
BH	(60-80)	0.0	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		355.8	100.0%
BUG Rating	B1 U0 G0		