



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Indoor Distribution Test Report

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

**Prepared For**  
**Access Lighting**

Jason Stone  
14410 Myford Rd  
Irvine, CA 92606  
United States

**Catalog Number**  
**62487LEDD-BS/OPL**

Order Number  
12014271  
Test Number  
12014271.10

Test Date

2017-11-09

Prepared By

William Escobar, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Decorative metal housing with diffuse glass lens  
**Lamp:** 40 White LED's  
**Mounting:** Surface – Wall

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 2.75 in.  
Luminous Width: 4.250 in.  
Luminous Height: 11.75 in.

**Summary of Results**

Total Luminaire Output: 861.1 Lumens  
Luminaire Efficacy: 59.2 lm/w  
Maximum Candela: 165 Candela

**Test Conditions**

Test Temperature: 24.8 °C  
Voltage: 120.1 VAC  
Current: 0.1316 A  
Power: 14.55 W  
Power Factor: 0.921  
Frequency: 60 Hz  
Current THD: 42.2 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

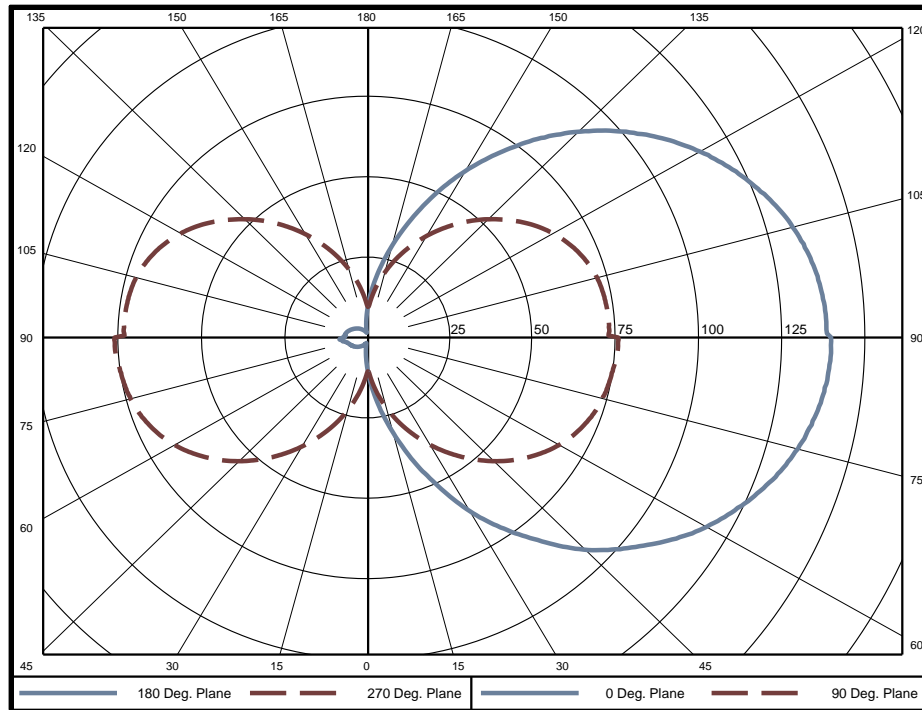
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.1316 A	14.55 W	0.921	60 Hz	42.2 %

### Summary of Results

**Spacing Criteria**  
 0-180: 5.42  
 90-270: 4.26

**Total Lumen Output:** 861.1 Lumens  
**Luminaire Efficacy:** 59.2 lm/w  
**Maximum Candela:** 165 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.29	0.0%	60-65	38.20	4.4%	120-125	33.25	3.9%
5-10	1.07	0.1%	65-70	42.04	4.9%	125-130	28.71	3.3%
10-15	2.27	0.3%	70-75	45.34	5.3%	130-135	24.15	2.8%
15-20	3.98	0.5%	75-80	47.97	5.6%	135-140	19.78	2.3%
20-25	6.26	0.7%	80-85	49.83	5.8%	140-145	15.67	1.8%
25-30	9.10	1.1%	85-90	50.78	5.9%	145-150	11.93	1.4%
30-35	12.47	1.4%	90-95	50.33	5.8%	150-155	8.68	1.0%
35-40	16.29	1.9%	95-100	49.36	5.7%	155-160	5.93	0.7%
40-45	20.50	2.4%	100-105	47.53	5.5%	160-165	3.74	0.4%
45-50	24.94	2.9%	105-110	44.89	5.2%	165-170	2.12	0.2%
50-55	29.45	3.4%	110-115	41.50	4.8%	170-175	0.98	0.1%
55-60	33.97	3.9%	115-120	37.56	4.4%	175-180	0.26	0.0%

Zone	Lumens	% of Luminaire
0-40	52	6.0%
0-60	161	18.6%
0-90	435	50.5%
90-180	426	49.5%



**Candela Tabulation**  
Horizontal 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	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
5	16.6	17.3	17.0	15.8	13.8	11.6	9.3	7.3	6.4	7.3	9.3	11.6	13.8	15.8	17.0	17.3
10	23.7	25.4	24.8	22.2	18.4	14.1	9.8	5.8	3.6	5.8	9.8	14.1	18.4	22.2	24.8	25.4
15	32.0	34.7	33.5	29.2	23.3	17.0	11.1	5.3	2.1	5.3	11.1	17.0	23.3	29.2	33.5	34.7
20	41.7	45.2	43.1	36.7	28.5	20.3	13.0	6.0	1.9	6.0	13.0	20.3	28.5	36.7	43.1	45.2
25	52.0	56.3	53.4	44.4	33.6	23.9	15.6	7.6	2.4	7.6	15.6	23.9	33.6	44.4	53.4	56.3
30	63.1	67.7	64.5	52.7	38.9	27.7	19.0	9.1	2.8	9.1	19.0	27.7	38.9	52.7	64.5	67.7
35	73.2	79.2	76.1	61.5	44.2	31.8	22.4	10.7	3.2	10.7	22.4	31.8	44.2	61.5	76.1	79.2
40	83.2	90.1	87.8	71.0	49.4	36.2	25.8	12.2	3.6	12.2	25.8	36.2	49.4	71.0	87.8	90.1
45	93.5	100.7	99.8	81.4	54.4	40.8	29.2	13.6	4.1	13.6	29.2	40.8	54.4	81.4	99.8	100.7
50	101.9	110.3	111.2	91.7	59.0	45.2	32.3	14.9	4.5	14.9	32.3	45.2	59.0	91.7	111.2	110.3
55	110.1	119.4	122.2	102.0	63.2	49.4	35.2	16.1	4.8	16.1	35.2	49.4	63.2	102.0	122.2	119.4
60	117.7	127.6	132.6	112.2	66.9	53.2	38.1	17.3	5.2	17.3	38.1	53.2	66.9	112.2	132.6	127.6
65	123.9	134.4	141.7	121.3	69.8	56.4	40.5	18.2	5.5	18.2	40.5	56.4	69.8	121.3	141.7	134.4
70	129.4	140.3	149.8	129.4	72.1	59.1	42.5	19.1	5.8	19.1	42.5	59.1	72.1	129.4	149.8	140.3
75	133.8	144.8	156.6	136.1	73.7	61.3	44.3	19.9	6.1	19.9	44.3	61.3	73.7	136.1	156.6	144.8
80	136.9	148.1	161.4	141.1	74.6	63.0	45.7	20.9	7.0	20.9	45.7	63.0	74.6	141.1	161.4	148.1
85	138.8	149.8	164.0	143.7	75.5	64.0	46.9	21.9	8.0	21.9	46.9	64.0	75.5	143.7	164.0	149.8
90	139.2	150.2	164.8	144.4	75.9	64.2	47.0	21.7	7.4	21.7	47.0	64.2	75.9	144.4	164.8	150.2
95	137.3	149.8	164.1	142.7	73.2	63.8	46.0	20.6	6.7	20.6	46.0	63.8	73.2	142.7	164.1	149.8
100	135.4	147.7	160.9	139.2	72.8	62.7	45.1	20.4	6.7	20.4	45.1	62.7	72.8	139.2	160.9	147.7
105	132.2	144.2	155.6	133.9	72.0	61.1	43.9	19.8	6.4	19.8	43.9	61.1	72.0	133.9	155.6	144.2
110	127.7	139.4	148.7	126.9	70.2	58.9	42.2	19.0	6.0	19.0	42.2	58.9	70.2	126.9	148.7	139.4
115	122.1	133.2	140.3	118.5	67.9	56.0	40.1	18.1	5.6	18.1	40.1	56.0	67.9	118.5	140.3	133.2
120	115.4	125.8	130.3	108.9	64.8	52.6	37.5	17.1	5.2	17.1	37.5	52.6	64.8	108.9	130.3	125.8
125	107.9	117.2	119.6	98.6	61.1	48.8	34.7	15.9	4.8	15.9	34.7	48.8	61.1	98.6	119.6	117.2
130	99.6	107.6	107.9	87.9	56.7	44.5	31.7	14.7	4.4	14.7	31.7	44.5	56.7	87.9	107.9	107.6
135	90.5	97.5	96.3	77.6	52.0	40.0	28.5	13.4	4.0	13.4	28.5	40.0	52.0	77.6	96.3	97.5
140	81.0	86.9	84.5	67.8	47.2	35.4	25.3	12.0	3.6	12.0	25.3	35.4	47.2	67.8	84.5	86.9
145	70.6	75.7	72.7	58.6	42.1	30.8	22.0	10.6	3.1	10.6	22.0	30.8	42.1	58.6	72.7	75.7
150	60.5	64.3	61.2	50.1	36.9	26.6	18.6	9.1	2.7	9.1	18.6	26.6	36.9	50.1	61.2	64.3
155	50.1	53.0	50.5	42.1	31.8	22.8	15.3	7.6	2.3	7.6	15.3	22.8	31.8	42.1	50.5	53.0
160	40.1	42.2	40.6	34.5	26.7	19.2	12.2	6.1	1.9	6.1	12.2	19.2	26.7	34.5	40.6	42.2
165	30.8	32.2	31.4	27.4	21.8	16.0	10.2	4.9	1.6	4.9	10.2	16.0	21.8	27.4	31.4	32.2
170	22.6	23.3	23.0	20.6	17.1	13.0	8.9	5.1	3.0	5.1	8.9	13.0	17.1	20.6	23.0	23.3
175	15.7	15.6	15.5	14.4	12.6	10.6	8.5	6.5	5.8	6.5	8.5	10.6	12.6	14.4	15.5	15.6
180	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

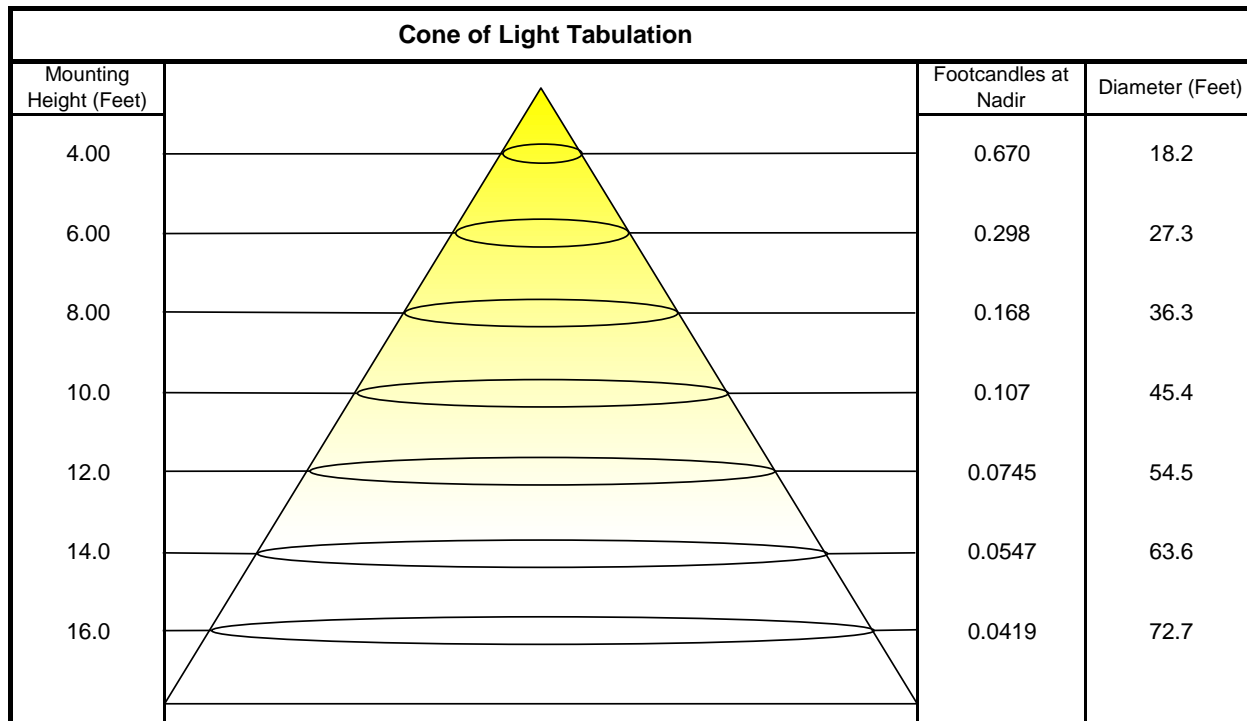
	0	45	90
0	1423	1423	1423
45	3325	3131	2709
55	3585	3484	2953
65	3826	3811	3161
75	4046	4100	3337
85	4237	4312	3525



### 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	924	924	924	924	853	853	853	853	720	720	720	599	599	599	487	487	487	435
1	791	732	679	631	722	670	623	580	554	517	484	447	419	394	349	328	309	260
2	700	611	537	475	636	557	492	436	457	406	361	364	325	290	278	248	222	178
3	627	521	438	373	568	474	401	342	387	329	282	306	261	224	231	197	168	129
4	566	451	366	301	512	410	334	276	334	274	226	263	216	178	197	161	131	97
5	515	395	310	248	466	359	284	227	293	232	186	230	183	146	172	136	106	75
6	471	349	267	208	426	318	244	191	259	200	156	204	157	121	153	116	87	60
7	433	312	233	177	392	284	213	162	232	174	132	183	137	103	137	101	74	49
8	400	280	205	153	363	256	187	140	209	153	114	166	121	88	125	89	63	41
9	371	254	181	133	337	232	166	121	190	136	99	151	108	76	114	80	54	34
10	346	231	162	116	314	211	149	106	174	122	86	138	96	67	105	72	47	29

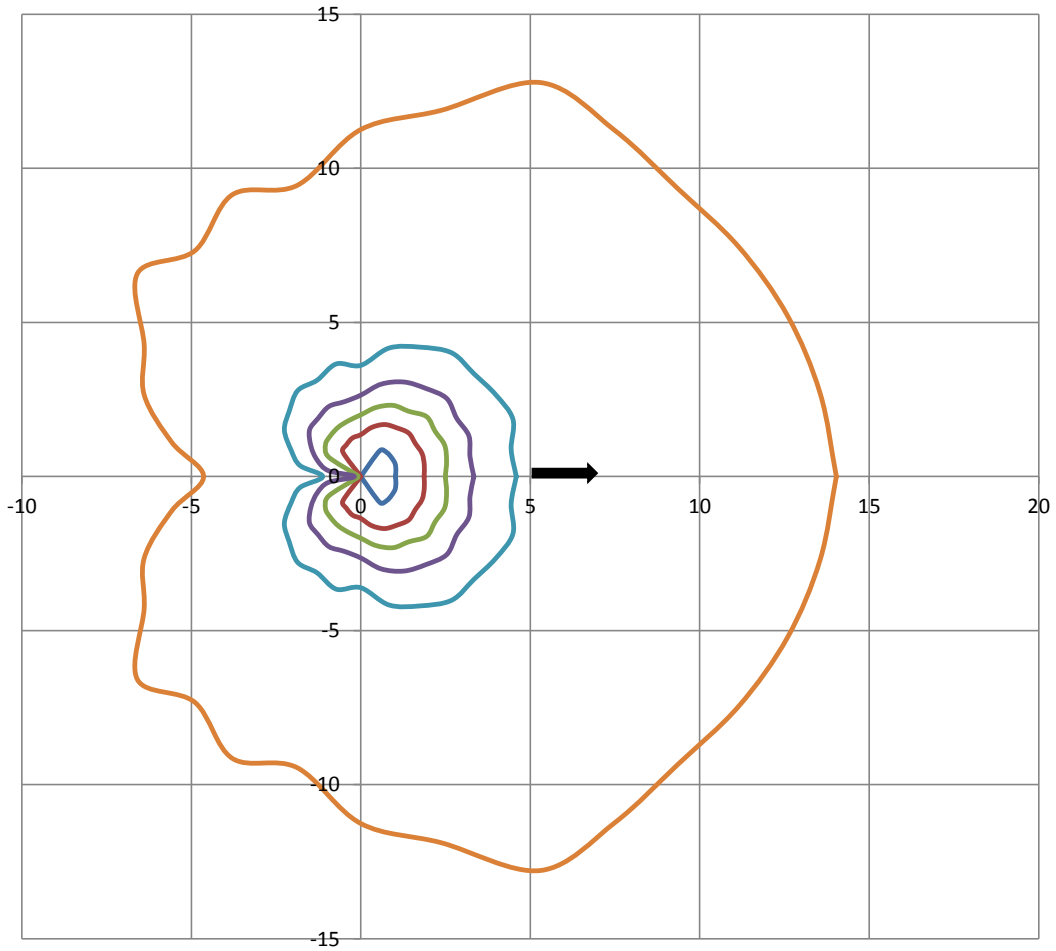
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	10.7 Candela
Central Cone Intensity:	12 Candela
Beam Flux:	859.4 Lumens
Beam Angle (0-180):	#REF! Degrees
Beam Angle (90-270):	#REF! Degrees
Field Angle (0-180):	#REF! Degrees
Field Angle (90-270):	#REF! Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

