

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HDB434000L30XX_IES.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102046181CHI-039
[TESTLAB] INTERTEK
[ISSUE DATE]
[TEST DATE] 12/5/2016
[MANUFACT] AFX INC.
[LUMCAT] HDB434000L30EN
[LUMINAIRE] LED OVERBED FIXTURE
[LAMP] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2421
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	52.8
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.50 ft
Luminous Width (90-270)	0.46 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3316	2739	1734
55	3995	3173	1704
65	5132	3881	1630
75	7637	5468	1475
85	20653	13931	1280

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	269.58	269.58	269.58	269.58	269.58	269.58	269.58	269.58	269.58	269.58
2.5	278.46	277.00	272.14	267.24	266.19	266.91	269.85	272.14	273.11	272.14
5.0	286.40	283.99	276.39	268.34	265.36	266.25	269.48	271.75	272.58	271.75
7.5	293.56	290.55	280.98	269.58	264.11	265.08	268.36	270.95	272.32	270.95
10.0	300.22	296.29	284.98	270.53	262.29	263.43	266.79	269.64	271.60	269.64
12.5	306.75	301.69	288.43	271.24	259.90	261.17	264.95	267.84	269.08	267.84
15.0	313.01	306.69	291.32	271.56	257.15	258.28	262.14	265.12	265.63	265.12
17.5	318.81	311.42	293.94	271.13	253.52	254.98	258.74	261.74	262.32	261.74
20.0	324.35	315.87	296.19	270.22	249.46	251.09	254.81	257.94	258.23	257.94
22.5	329.37	319.82	297.87	268.73	245.09	246.78	250.45	253.38	253.14	253.38
25.0	334.37	323.41	298.99	266.58	240.10	241.90	245.40	248.51	248.10	248.51
27.5	338.88	326.91	299.73	263.97	234.50	236.46	240.10	243.28	242.86	243.28
30.0	342.48	329.79	299.94	261.01	228.60	230.55	234.19	237.47	236.84	237.47
32.5	345.52	331.92	299.65	257.54	222.19	224.29	227.57	230.84	230.16	230.84
35.0	348.04	333.24	298.98	253.38	215.21	217.46	220.66	224.03	223.38	224.03
37.5	349.84	334.17	297.51	248.72	207.95	210.07	213.27	216.90	215.99	216.90
40.0	351.01	334.32	295.60	243.58	200.35	202.28	205.51	209.29	208.10	209.29
42.5	351.34	333.84	293.03	238.11	192.21	194.22	197.35	201.19	199.86	201.19
45.0	351.01	332.64	289.98	232.16	183.58	185.56	188.87	192.70	191.28	192.70
47.5	349.92	331.09	286.30	225.74	174.84	176.49	180.21	183.81	182.39	183.81
50.0	348.20	328.78	282.27	219.07	165.92	167.32	171.44	174.66	173.22	174.66
52.5	345.81	325.90	277.70	212.04	156.43	157.70	162.39	165.37	164.01	165.37
55.0	343.05	322.31	272.44	204.37	146.30	147.84	152.92	155.64	154.43	155.64
57.5	339.50	318.22	266.52	196.30	135.86	137.45	142.73	145.68	144.43	145.68
60.0	335.40	313.25	260.03	187.69	125.34	126.89	131.96	135.46	134.46	135.46
62.5	330.35	307.53	253.07	178.76	114.36	115.96	121.15	125.12	124.35	125.12
65.0	324.72	301.19	245.54	169.33	103.12	104.85	110.37	114.69	113.75	114.69
67.5	318.13	294.44	237.70	159.61	91.65	93.57	99.09	103.95	104.04	103.95
70.0	311.39	287.37	229.43	149.66	80.59	82.49	87.73	93.51	92.91	93.51
72.5	303.66	279.69	220.68	139.63	68.92	70.95	77.77	82.85	82.76	82.85
75.0	295.91	271.72	211.89	129.53	57.16	59.01	66.54	71.89	72.47	71.89
77.5	288.21	263.91	203.43	119.45	45.75	47.71	55.30	61.01	61.62	61.01
80.0	280.60	256.33	195.08	109.82	34.94	36.88	45.32	50.17	51.26	50.17
82.5	273.92	249.46	187.49	101.13	25.10	26.53	34.83	40.73	42.05	40.73
85.0	269.49	244.86	181.78	94.11	16.70	18.05	26.55	31.92	32.85	31.92
87.5	268.73	243.85	179.30	89.63	10.56	11.70	18.90	23.32	24.09	23.32
90.0	269.56	244.30	179.65	88.73	7.80	7.87	15.23	20.18	21.74	20.18
92.5	269.27	244.00	179.46	89.30	9.12	10.58	18.18	22.78	25.51	22.78
95.0	269.29	245.08	182.08	93.94	14.41	14.85	24.25	30.39	33.75	30.39
97.5	274.55	250.74	188.92	101.38	22.74	21.45	31.54	37.85	41.10	37.85
100.0	281.97	258.47	197.28	110.48	33.00	31.64	37.56	46.83	50.38	46.83
102.5	289.65	266.83	206.54	120.78	44.64	42.89	47.41	52.94	56.98	52.94
105.0	298.11	275.40	216.30	131.85	57.09	54.64	58.60	62.39	65.60	62.39
107.5	306.58	284.18	226.19	143.15	69.82	66.94	70.06	73.50	76.57	73.50
110.0	314.46	292.48	235.76	154.40	82.70	79.53	82.05	85.28	88.36	85.28
112.5	322.11	300.34	245.01	165.63	95.82	92.56	94.51	97.39	100.39	97.39
115.0	329.45	308.69	254.38	176.93	109.22	105.69	107.19	109.67	113.20	109.67
117.5	336.34	316.67	263.87	188.28	122.62	118.78	119.71	121.79	125.38	121.79
120.0	342.74	324.13	272.77	199.10	135.72	131.54	132.56	133.82	137.15	133.82
122.5	348.69	330.67	280.73	209.55	148.69	144.25	145.44	145.96	149.03	145.96
125.0	354.44	336.79	288.11	219.90	161.49	156.92	157.87	157.92	161.04	157.92
127.5	360.16	342.70	295.49	229.91	173.74	169.33	170.48	170.24	173.38	170.24
130.0	366.35	347.56	302.28	239.33	186.11	181.83	182.72	182.12	185.12	182.12
132.5	371.37	352.03	308.95	248.33	197.72	193.73	194.36	193.76	197.03	193.76

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CANDELA TABULATION - (Cont.)

135.0	375.47	356.29	314.69	257.34	209.36	205.46	205.66	205.30	208.69	205.30
137.5	378.15	359.78	320.40	265.58	220.49	217.10	216.63	216.51	220.01	216.51
140.0	380.25	362.37	325.22	273.45	231.26	228.10	227.57	227.64	230.73	227.64
142.5	382.19	364.78	329.60	280.68	241.16	238.56	238.27	237.95	241.26	237.95
145.0	382.32	365.96	332.91	287.94	251.13	248.74	248.04	248.29	251.77	248.29
147.5	382.24	366.36	335.71	294.07	260.35	258.20	257.72	258.05	261.82	258.05
150.0	380.04	365.91	337.60	299.09	268.95	267.14	266.89	267.59	271.37	267.59
152.5	377.43	364.57	339.17	303.81	276.75	275.69	275.55	276.34	280.69	276.34
155.0	374.10	362.40	339.98	308.28	283.88	283.27	282.98	284.06	289.07	284.06
157.5	369.93	359.90	340.64	312.56	290.06	290.07	290.01	291.19	296.44	291.19
160.0	365.12	357.09	340.27	315.30	296.42	296.20	296.64	297.91	303.03	297.91
162.5	361.75	353.90	338.94	317.50	301.84	301.98	302.18	303.70	308.76	303.70
165.0	358.00	350.70	337.82	319.21	306.33	306.73	308.21	309.47	314.51	309.47
167.5	353.99	346.23	335.95	319.83	310.34	311.26	313.10	314.81	320.56	314.81
170.0	348.65	341.47	333.56	319.81	313.13	314.58	316.67	318.72	324.91	318.72
172.5	343.22	336.47	329.70	319.46	315.46	317.12	319.44	321.50	327.51	321.50
175.0	336.42	330.90	325.41	319.48	317.48	318.97	321.53	323.10	329.09	323.10
177.5	330.99	325.91	323.19	319.99	318.85	320.39	322.79	324.79	330.37	324.79
180.0	323.56	323.56	323.56	323.56	323.56	323.56	323.56	323.56	323.56	323.56

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	269.58	269.58	269.58	269.58	269.58	269.58	269.58
2.5	269.85	266.91	266.19	267.24	272.14	277.00	278.46
5.0	269.48	266.25	265.36	268.34	276.39	283.99	286.40
7.5	268.36	265.08	264.11	269.58	280.98	290.55	293.56
10.0	266.79	263.43	262.29	270.53	284.98	296.29	300.22
12.5	264.95	261.17	259.90	271.24	288.43	301.69	306.75
15.0	262.14	258.28	257.15	271.56	291.32	306.69	313.01
17.5	258.74	254.98	253.52	271.13	293.94	311.42	318.81
20.0	254.81	251.09	249.46	270.22	296.19	315.87	324.35
22.5	250.45	246.78	245.09	268.73	297.87	319.82	329.37
25.0	245.40	241.90	240.10	266.58	298.99	323.41	334.37
27.5	240.10	236.46	234.50	263.97	299.73	326.91	338.88
30.0	234.19	230.55	228.60	261.01	299.94	329.79	342.48
32.5	227.57	224.29	222.19	257.54	299.65	331.92	345.52
35.0	220.66	217.46	215.21	253.38	298.98	333.24	348.04
37.5	213.27	210.07	207.95	248.72	297.51	334.17	349.84
40.0	205.51	202.28	200.35	243.58	295.60	334.32	351.01
42.5	197.35	194.22	192.21	238.11	293.03	333.84	351.34
45.0	188.87	185.56	183.58	232.16	289.98	332.64	351.01
47.5	180.21	176.49	174.84	225.74	286.30	331.09	349.92
50.0	171.44	167.32	165.92	219.07	282.27	328.78	348.20
52.5	162.39	157.70	156.43	212.04	277.70	325.90	345.81
55.0	152.92	147.84	146.30	204.37	272.44	322.31	343.05
57.5	142.73	137.45	135.86	196.30	266.52	318.22	339.50
60.0	131.96	126.89	125.34	187.69	260.03	313.25	335.40
62.5	121.15	115.96	114.36	178.76	253.07	307.53	330.35
65.0	110.37	104.85	103.12	169.33	245.54	301.19	324.72
67.5	99.09	93.57	91.65	159.61	237.70	294.44	318.13
70.0	87.73	82.49	80.59	149.66	229.43	287.37	311.39
72.5	77.77	70.95	68.92	139.63	220.68	279.69	303.66
75.0	66.54	59.01	57.16	129.53	211.89	271.72	295.91
77.5	55.30	47.71	45.75	119.45	203.43	263.91	288.21
80.0	45.32	36.88	34.94	109.82	195.08	256.33	280.60

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CANDELA TABULATION - (Cont.)

82.5	34.83	26.53	25.10	101.13	187.49	249.46	273.92
85.0	26.55	18.05	16.70	94.11	181.78	244.86	269.49
87.5	18.90	11.70	10.56	89.63	179.30	243.85	268.73
90.0	15.23	7.87	7.80	88.73	179.65	244.30	269.56
92.5	18.18	10.58	9.12	89.30	179.46	244.00	269.27
95.0	24.25	14.85	14.41	93.94	182.08	245.08	269.29
97.5	31.54	21.45	22.74	101.38	188.92	250.74	274.55
100.0	37.56	31.64	33.00	110.48	197.28	258.47	281.97
102.5	47.41	42.89	44.64	120.78	206.54	266.83	289.65
105.0	58.60	54.64	57.09	131.85	216.30	275.40	298.11
107.5	70.06	66.94	69.82	143.15	226.19	284.18	306.58
110.0	82.05	79.53	82.70	154.40	235.76	292.48	314.46
112.5	94.51	92.56	95.82	165.63	245.01	300.34	322.11
115.0	107.19	105.69	109.22	176.93	254.38	308.69	329.45
117.5	119.71	118.78	122.62	188.28	263.87	316.67	336.34
120.0	132.56	131.54	135.72	199.10	272.77	324.13	342.74
122.5	145.44	144.25	148.69	209.55	280.73	330.67	348.69
125.0	157.87	156.92	161.49	219.90	288.11	336.79	354.44
127.5	170.48	169.33	173.74	229.91	295.49	342.70	360.16
130.0	182.72	181.83	186.11	239.33	302.28	347.56	366.35
132.5	194.36	193.73	197.72	248.33	308.95	352.03	371.37
135.0	205.66	205.46	209.36	257.34	314.69	356.29	375.47
137.5	216.63	217.10	220.49	265.58	320.40	359.78	378.15
140.0	227.57	228.10	231.26	273.45	325.22	362.37	380.25
142.5	238.27	238.56	241.16	280.68	329.60	364.78	382.19
145.0	248.04	248.74	251.13	287.94	332.91	365.96	382.32
147.5	257.72	258.20	260.35	294.07	335.71	366.36	382.24
150.0	266.89	267.14	268.95	299.09	337.60	365.91	380.04
152.5	275.55	275.69	276.75	303.81	339.17	364.57	377.43
155.0	282.98	283.27	283.88	308.28	339.98	362.40	374.10
157.5	290.01	290.07	290.06	312.56	340.64	359.90	369.93
160.0	296.64	296.20	296.42	315.30	340.27	357.09	365.12
162.5	302.18	301.98	301.84	317.50	338.94	353.90	361.75
165.0	308.21	306.73	306.33	319.21	337.82	350.70	358.00
167.5	313.10	311.26	310.34	319.83	335.95	346.23	353.99
170.0	316.67	314.58	313.13	319.81	333.56	341.47	348.65
172.5	319.44	317.12	315.46	319.46	329.70	336.47	343.22
175.0	321.53	318.97	317.48	319.48	325.41	330.90	336.42
177.5	322.79	320.39	318.85	319.99	323.19	325.91	330.99
180.0	323.56	323.56	323.56	323.56	323.56	323.56	323.56

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	103.97	N.A.	4.30
0-30	228.45	N.A.	9.40
0-40	388.87	N.A.	16.10
0-60	754.55	N.A.	31.20
0-80	1062.95	N.A.	43.90
0-90	1169.09	N.A.	48.30
10-90	1142.99	N.A.	47.20
20-40	284.90	N.A.	11.80
20-50	466.08	N.A.	19.30
40-70	535.02	N.A.	22.10
60-80	308.39	N.A.	12.70
70-80	139.05	N.A.	5.70
80-90	106.14	N.A.	4.40
90-110	242.74	N.A.	10.00
90-120	415.23	N.A.	17.20
90-130	609.54	N.A.	25.20
90-150	986.97	N.A.	40.80
90-180	1251.73	N.A.	51.70
110-180	1008.99	N.A.	41.70
0-180	2420.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.09
10-20	77.88
20-30	124.48
30-40	160.42
40-50	181.18
50-60	184.50
60-70	169.34
70-80	139.05
80-90	106.14
90-100	105.16
100-110	137.58
110-120	172.49
120-130	194.31
130-140	197.45
140-150	179.98
150-160	142.85
160-170	90.98
170-180	30.93

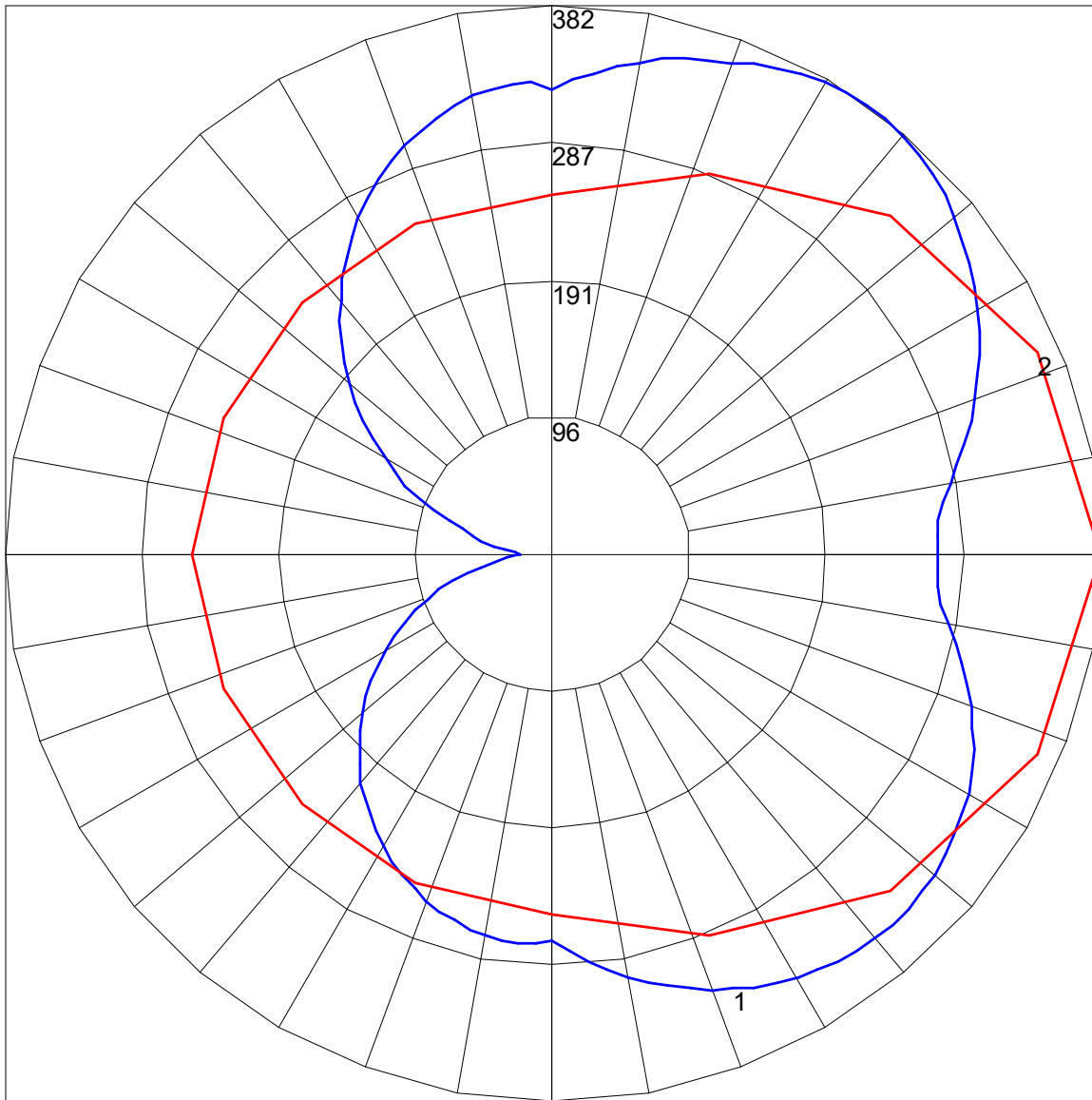
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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	0
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	95	90	86	81	87	83	79	75	69	66	63	57	54	52	45	43	42	36
2	86	78	71	65	79	71	65	60	59	55	51	48	45	42	38	36	34	29
3	78	67	59	53	71	62	55	49	52	46	42	42	38	35	33	30	28	23
4	71	59	51	44	65	54	47	41	45	40	35	37	33	29	29	26	23	19
5	65	52	44	37	59	48	40	35	40	34	30	33	28	25	26	23	20	17
6	60	47	38	32	54	43	35	30	36	30	26	30	25	21	24	20	17	14
7	55	42	34	28	50	39	31	26	33	27	22	27	22	19	21	18	15	12
8	51	38	30	24	46	35	28	23	30	24	20	24	20	16	20	16	13	11
9	47	35	27	21	43	32	25	20	27	21	17	22	18	15	18	14	12	10
10	44	32	24	19	40	29	22	18	25	19	15	21	16	13	17	13	11	9

POLAR GRAPH



Maximum Candela = 382.32 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)