

Photometric Toolbox

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HDB555400L30XX_IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 102046181CHI-040
 [TESTLAB] INTERTEK
 [ISSUE DATE]
 [TESTDATE] 12/5/2016
 [MANUFAC] AFX INC.
 [LUMCAT] HDB555400L30EN
 [LUMINAIRE] LED OVERBED FIXTURE
 [LAMP] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3274
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	71.8
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	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	425.87	425.87	425.87	425.87	425.87	425.87	425.87	425.87	425.87	425.87
2.5	441.10	434.39	425.91	421.41	418.70	421.49	424.58	430.41	435.18	430.41
5.0	449.25	441.15	429.88	421.51	417.31	420.56	424.12	430.01	434.70	430.01
7.5	456.35	447.27	433.73	421.82	415.06	418.77	422.54	428.60	433.71	428.60
10.0	462.54	452.57	436.76	421.72	411.98	415.96	420.07	426.27	431.58	426.27
12.5	468.29	457.29	438.99	420.89	408.01	412.19	416.75	422.93	428.08	422.93
15.0	473.36	461.40	440.60	419.30	403.12	407.53	412.49	418.65	423.55	418.65
17.5	478.19	464.81	441.66	416.89	397.31	401.94	407.30	413.34	418.02	413.34
20.0	482.81	467.70	442.01	413.59	390.69	395.72	401.27	407.18	411.53	407.18
22.5	486.26	470.03	441.75	409.42	383.24	388.60	394.34	400.25	404.22	400.25
25.0	488.75	471.51	440.74	404.41	375.08	380.64	386.57	392.56	396.17	392.56
27.5	490.60	472.14	439.20	398.54	366.02	371.86	378.12	384.09	387.17	384.09
30.0	491.56	471.99	436.86	391.95	356.18	362.31	368.80	374.57	377.29	374.57
32.5	491.61	471.09	433.58	384.66	345.62	352.09	358.67	364.19	366.77	364.19
35.0	490.85	469.40	429.32	376.71	334.51	341.07	347.73	353.31	355.41	353.31
37.5	489.30	466.84	424.22	368.04	322.82	329.31	335.99	341.76	343.14	341.76
40.0	486.98	463.43	418.38	358.64	310.51	316.83	323.64	329.30	330.44	329.30
42.5	483.53	459.06	411.68	348.70	297.56	303.91	310.70	316.12	317.35	316.12
45.0	479.34	453.97	404.26	337.94	284.14	290.29	297.10	302.56	303.60	302.56
47.5	474.14	448.19	396.23	326.80	270.15	276.22	283.10	288.53	289.15	288.53
50.0	468.52	441.67	387.61	315.13	256.03	261.60	268.58	273.76	274.43	273.76
52.5	461.66	434.41	378.46	302.91	241.47	246.54	253.78	258.63	259.60	258.63
55.0	454.02	426.42	368.71	290.17	226.40	231.00	238.32	243.13	244.26	243.13
57.5	445.48	417.83	358.06	276.97	210.71	214.91	222.39	227.33	228.23	227.33
60.0	436.59	408.44	346.77	263.14	194.58	198.49	205.95	211.21	211.97	211.21
62.5	426.97	398.41	334.92	249.06	178.35	181.87	189.43	195.21	195.96	195.21
65.0	416.91	387.78	322.78	234.70	161.74	165.07	172.99	179.11	180.16	179.11
67.5	405.58	376.70	310.27	220.35	145.11	148.47	156.40	163.29	163.95	163.29
70.0	394.02	365.28	297.51	205.46	128.08	131.52	139.75	146.88	146.93	146.88
72.5	382.54	353.16	284.26	190.54	111.35	114.78	124.36	130.78	130.78	130.78
75.0	370.75	340.64	271.06	175.68	94.69	97.91	107.82	115.15	115.83	115.15
77.5	358.17	328.54	258.10	161.31	78.72	82.05	93.00	99.74	100.11	99.74
80.0	345.18	316.04	245.13	146.92	62.92	66.71	78.26	83.43	84.09	83.43
82.5	332.13	303.47	231.64	132.88	47.62	51.80	62.44	67.86	68.95	67.86
85.0	319.48	290.75	218.72	119.14	32.93	37.38	47.23	53.92	54.81	53.92
87.5	313.62	283.86	208.38	106.25	19.03	23.13	34.46	41.20	42.11	41.20
90.0	314.43	284.40	207.44	100.72	8.10	12.05	24.63	31.27	33.08	31.27
92.5	315.78	285.66	207.96	101.34	11.32	20.58	34.60	41.98	44.86	41.98
95.0	315.35	285.75	209.99	109.49	20.25	26.30	45.86	54.73	57.78	54.73
97.5	318.46	290.71	219.43	119.30	30.11	33.44	52.26	65.53	68.89	65.53
100.0	327.63	300.16	229.32	129.42	41.10	43.85	56.85	71.12	75.69	71.12
102.5	336.57	309.02	238.94	140.22	53.17	55.50	65.35	74.89	79.42	74.89
105.0	345.32	317.86	248.54	152.19	66.12	67.93	76.43	83.48	86.81	83.48
107.5	353.45	326.45	259.01	164.73	80.04	81.57	89.03	94.49	97.24	94.49
110.0	361.67	334.94	269.66	177.80	95.35	96.00	102.78	107.64	110.35	107.64
112.5	369.82	343.93	280.74	191.50	111.55	111.85	117.85	121.90	125.19	121.90
115.0	379.15	353.83	292.79	206.46	128.95	128.60	133.88	137.65	140.57	137.65
117.5	388.46	364.60	305.78	222.76	147.30	146.52	151.19	154.35	157.15	154.35
120.0	399.19	375.75	319.44	239.32	166.02	164.98	168.62	171.45	173.96	171.45
122.5	410.47	387.66	332.98	255.67	185.00	183.90	186.81	189.07	192.37	189.07
125.0	422.76	399.87	346.93	272.08	203.93	202.89	205.51	207.53	210.49	207.53
127.5	434.35	412.16	360.93	288.17	222.60	221.59	223.96	225.46	228.52	225.46
130.0	445.61	424.12	374.37	304.01	240.52	240.28	241.93	243.78	246.25	243.78
132.5	456.01	435.67	387.19	318.98	258.11	258.13	259.38	261.72	263.48	261.72

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CANDELA TABULATION - (Cont.)

135.0	464.83	445.44	398.56	333.00	274.44	274.26	276.07	278.05	281.55	278.05
137.5	472.48	453.57	408.92	346.02	289.95	290.46	291.87	293.97	298.21	293.97
140.0	478.61	460.27	417.88	357.73	304.81	305.87	306.91	309.08	313.73	309.08
142.5	483.25	465.69	425.92	369.04	318.54	320.11	321.10	323.83	328.52	323.83
145.0	486.94	470.21	432.54	379.35	332.04	333.43	335.00	337.23	341.92	337.23
147.5	489.44	472.71	437.84	388.95	345.57	346.56	347.81	349.94	354.56	349.94
150.0	491.21	474.76	442.01	397.84	357.59	358.32	360.68	362.54	365.87	362.54
152.5	492.74	475.54	445.50	405.73	368.17	368.03	372.19	373.58	377.55	373.58
155.0	492.89	475.49	448.28	412.41	378.71	378.84	382.81	384.15	389.62	384.15
157.5	491.39	474.52	449.89	417.56	386.95	387.96	392.07	393.75	400.02	393.75
160.0	489.48	472.64	450.68	422.81	395.40	396.23	399.93	402.48	408.25	402.48
162.5	484.96	470.99	451.41	426.61	402.49	402.83	406.04	409.94	415.15	409.94
165.0	480.72	468.54	451.43	429.49	408.64	408.89	412.09	416.19	422.22	416.19
167.5	474.53	464.60	450.28	432.75	415.02	414.53	418.24	422.06	428.01	422.06
170.0	469.38	460.63	447.89	433.38	419.64	419.69	423.40	426.52	433.59	426.52
172.5	463.61	455.68	446.28	433.33	423.23	422.25	426.93	429.72	436.56	429.72
175.0	455.49	448.46	441.32	432.06	424.88	422.99	428.17	430.92	436.80	430.92
177.5	446.09	440.28	435.12	429.37	425.75	424.59	428.87	431.77	437.68	431.77
180.0	430.73	430.73	430.73	430.73	430.73	430.73	430.73	430.73	430.73	430.73

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	425.87	425.87	425.87	425.87	425.87	425.87	425.87
2.5	424.58	421.49	418.70	421.41	425.91	434.39	441.10
5.0	424.12	420.56	417.31	421.51	429.88	441.15	449.25
7.5	422.54	418.77	415.06	421.82	433.73	447.27	456.35
10.0	420.07	415.96	411.98	421.72	436.76	452.57	462.54
12.5	416.75	412.19	408.01	420.89	438.99	457.29	468.29
15.0	412.49	407.53	403.12	419.30	440.60	461.40	473.36
17.5	407.30	401.94	397.31	416.89	441.66	464.81	478.19
20.0	401.27	395.72	390.69	413.59	442.01	467.70	482.81
22.5	394.34	388.60	383.24	409.42	441.75	470.03	486.26
25.0	386.57	380.64	375.08	404.41	440.74	471.51	488.75
27.5	378.12	371.86	366.02	398.54	439.20	472.14	490.60
30.0	368.80	362.31	356.18	391.95	436.86	471.99	491.56
32.5	358.67	352.09	345.62	384.66	433.58	471.09	491.61
35.0	347.73	341.07	334.51	376.71	429.32	469.40	490.85
37.5	335.99	329.31	322.82	368.04	424.22	466.84	489.30
40.0	323.64	316.83	310.51	358.64	418.38	463.43	486.98
42.5	310.70	303.91	297.56	348.70	411.68	459.06	483.53
45.0	297.10	290.29	284.14	337.94	404.26	453.97	479.34
47.5	283.10	276.22	270.15	326.80	396.23	448.19	474.14
50.0	268.58	261.60	256.03	315.13	387.61	441.67	468.52
52.5	253.78	246.54	241.47	302.91	378.46	434.41	461.66
55.0	238.32	231.00	226.40	290.17	368.71	426.42	454.02
57.5	222.39	214.91	210.71	276.97	358.06	417.83	445.48
60.0	205.95	198.49	194.58	263.14	346.77	408.44	436.59
62.5	189.43	181.87	178.35	249.06	334.92	398.41	426.97
65.0	172.99	165.07	161.74	234.70	322.78	387.78	416.91
67.5	156.40	148.47	145.11	220.35	310.27	376.70	405.58
70.0	139.75	131.52	128.08	205.46	297.51	365.28	394.02
72.5	124.36	114.78	111.35	190.54	284.26	353.16	382.54
75.0	107.82	97.91	94.69	175.68	271.06	340.64	370.75
77.5	93.00	82.05	78.72	161.31	258.10	328.54	358.17
80.0	78.26	66.71	62.92	146.92	245.13	316.04	345.18

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82.5	62.44	51.80	47.62	132.88	231.64	303.47	332.13
85.0	47.23	37.38	32.93	119.14	218.72	290.75	319.48
87.5	34.46	23.13	19.03	106.25	208.38	283.86	313.62
90.0	24.63	12.05	8.10	100.72	207.44	284.40	314.43
92.5	34.60	20.58	11.32	101.34	207.96	285.66	315.78
95.0	45.86	26.30	20.25	109.49	209.99	285.75	315.35
97.5	52.26	33.44	30.11	119.30	219.43	290.71	318.46
100.0	56.85	43.85	41.10	129.42	229.32	300.16	327.63
102.5	65.35	55.50	53.17	140.22	238.94	309.02	336.57
105.0	76.43	67.93	66.12	152.19	248.54	317.86	345.32
107.5	89.03	81.57	80.04	164.73	259.01	326.45	353.45
110.0	102.78	96.00	95.35	177.80	269.66	334.94	361.67
112.5	117.85	111.85	111.55	191.50	280.74	343.93	369.82
115.0	133.88	128.60	128.95	206.46	292.79	353.83	379.15
117.5	151.19	146.52	147.30	222.76	305.78	364.60	388.46
120.0	168.62	164.98	166.02	239.32	319.44	375.75	399.19
122.5	186.81	183.90	185.00	255.67	332.98	387.66	410.47
125.0	205.51	202.89	203.93	272.08	346.93	399.87	422.76
127.5	223.96	221.59	222.60	288.17	360.93	412.16	434.35
130.0	241.93	240.28	240.52	304.01	374.37	424.12	445.61
132.5	259.38	258.13	258.11	318.98	387.19	435.67	456.01
135.0	276.07	274.26	274.44	333.00	398.56	445.44	464.83
137.5	291.87	290.46	289.95	346.02	408.92	453.57	472.48
140.0	306.91	305.87	304.81	357.73	417.88	460.27	478.61
142.5	321.10	320.11	318.54	369.04	425.92	465.69	483.25
145.0	335.00	333.43	332.04	379.35	432.54	470.21	486.94
147.5	347.81	346.56	345.57	388.95	437.84	472.71	489.44
150.0	360.68	358.32	357.59	397.84	442.01	474.76	491.21
152.5	372.19	368.03	368.17	405.73	445.50	475.54	492.74
155.0	382.81	378.84	378.71	412.41	448.28	475.49	492.89
157.5	392.07	387.96	386.95	417.56	449.89	474.52	491.39
160.0	399.93	396.23	395.40	422.81	450.68	472.64	489.48
162.5	406.04	402.83	402.49	426.61	451.41	470.99	484.96
165.0	412.09	408.89	408.64	429.49	451.43	468.54	480.72
167.5	418.24	414.53	415.02	432.75	450.28	464.60	474.53
170.0	423.40	419.69	419.64	433.38	447.89	460.63	469.38
172.5	426.93	422.25	423.23	433.33	446.28	455.68	463.61
175.0	428.17	422.99	424.88	432.06	441.32	448.46	455.49
177.5	428.87	424.59	425.75	429.37	435.12	440.28	446.09
180.0	430.73	430.73	430.73	430.73	430.73	430.73	430.73

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	161.50	N.A.	4.90
0-30	351.52	N.A.	10.70
0-40	592.23	N.A.	18.10
0-60	1124.11	N.A.	34.30
0-80	1553.41	N.A.	47.40
0-90	1689.99	N.A.	51.60
10-90	1649.09	N.A.	50.40
20-40	430.74	N.A.	13.20
20-50	697.30	N.A.	21.30
40-70	769.91	N.A.	23.50
60-80	429.30	N.A.	13.10
70-80	191.26	N.A.	5.80
80-90	136.59	N.A.	4.20
90-110	292.20	N.A.	8.90
90-120	496.25	N.A.	15.20
90-130	737.30	N.A.	22.50
90-150	1230.34	N.A.	37.60
90-180	1583.96	N.A.	48.40
110-180	1291.76	N.A.	39.50
0-180	3273.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.90
10-20	120.59
20-30	190.02
30-40	240.72
40-50	266.56
50-60	265.32
60-70	238.04
70-80	191.26
80-90	136.59
90-100	129.02
100-110	163.19
110-120	204.05
120-130	241.05
130-140	255.68
140-150	237.36
150-160	190.29
160-170	121.82
170-180	41.50

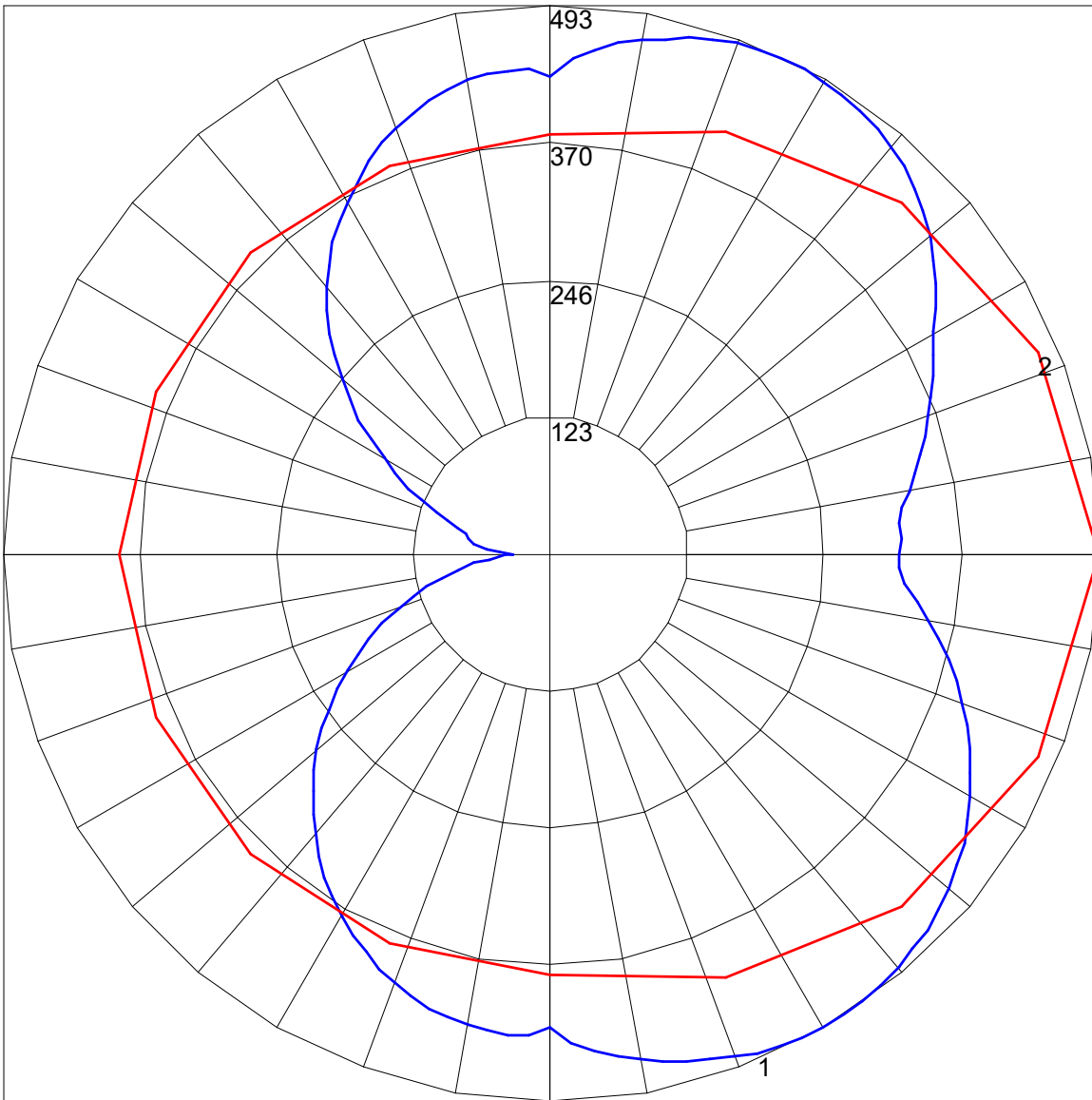
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	96	91	86	82	89	84	80	76	71	68	65	59	57	55	48	46	45	40
2	87	78	71	66	80	72	66	61	61	56	52	51	47	44	41	38	36	32
3	79	68	60	54	72	63	56	50	53	48	43	44	40	36	36	33	30	26
4	72	60	51	45	66	55	48	42	47	41	36	39	34	31	31	28	25	22
5	66	53	44	38	60	49	41	36	42	36	31	35	30	26	28	25	22	18
6	60	47	39	33	55	44	36	31	37	31	27	31	26	23	25	22	19	16
7	56	43	34	28	51	40	32	27	34	28	23	28	23	20	23	19	17	14
8	52	39	30	25	47	36	29	23	31	25	20	26	21	18	21	17	15	12
9	48	35	27	22	44	33	26	21	28	22	18	24	19	16	19	16	13	11
10	45	32	25	20	41	30	23	19	26	20	16	22	17	14	18	14	12	10

POLAR GRAPH



Maximum Candela = 492.89 Located At Horizontal Angle = 0, Vertical Angle = 155
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (155) (Through Max. Cd.)