

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BHEX-PRO-LED35-HO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BHEX-LED35-HO
[TESTLAB] INTERTEK
[ISSUE DATE] 8-13-18
[MANUFAC] PRUDENTIAL
[TOTAL LUMINAIRE LUMENS] 9795.2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17633
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.10 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	127887	82354	73754
55	128080	72552	63497
65	131135	62785	53732
75	140529	51575	43227
85	187921	39170	31938

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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	4695.12	4695.12	4695.12	4695.12	4695.12	4695.12	4695.12	4695.12	4695.12	4695.12
2.5	4687.92	4690.80	4686.84	4685.94	4689.00	4687.20	4693.50	4694.40	4690.62	4694.40
5.0	4670.82	4672.98	4674.24	4682.52	4685.94	4683.24	4684.32	4684.50	4682.70	4684.50
7.5	4648.32	4649.22	4659.84	4662.36	4660.02	4666.68	4671.54	4664.88	4658.58	4664.88
10.0	4615.74	4617.54	4624.74	4614.84	4618.26	4618.80	4639.32	4636.98	4626.54	4636.98
12.5	4566.24	4573.08	4561.02	4565.52	4566.78	4573.44	4581.90	4597.20	4584.06	4597.20
15.0	4501.26	4514.22	4495.14	4501.80	4505.76	4513.50	4523.94	4543.74	4528.98	4543.74
17.5	4424.76	4438.98	4421.34	4426.02	4443.66	4443.48	4454.10	4474.44	4459.50	4474.44
20.0	4336.56	4346.10	4337.10	4345.92	4356.72	4363.56	4376.34	4389.30	4379.22	4389.30
22.5	4242.42	4244.40	4246.38	4246.56	4282.92	4270.50	4283.64	4293.18	4286.70	4293.18
25.0	4132.44	4141.26	4146.66	4155.48	4165.92	4183.38	4188.24	4192.92	4185.90	4192.92
27.5	4023.18	4032.18	4033.44	4026.96	4053.60	4057.56	4068.54	4085.10	4074.30	4085.10
30.0	3908.34	3913.92	3922.92	3908.52	3939.84	3939.84	3962.16	3974.40	3957.12	3974.40
32.5	3784.50	3797.10	3800.70	3789.36	3817.62	3816.36	3836.16	3857.76	3835.98	3857.76
35.0	3659.94	3672.72	3672.54	3663.72	3697.20	3693.06	3710.70	3733.74	3712.32	3733.74
37.5	3533.76	3549.60	3545.28	3531.24	3576.42	3566.16	3583.26	3614.40	3585.78	3614.40
40.0	3407.40	3426.48	3418.92	3402.90	3443.22	3433.14	3463.02	3496.14	3457.62	3496.14
42.5	3279.06	3302.64	3292.74	3273.48	3316.50	3301.38	3334.68	3369.24	3329.28	3369.24
45.0	3153.42	3175.74	3167.10	3146.04	3188.88	3172.68	3207.42	3241.98	3202.38	3241.98
47.5	3024.90	3052.44	3040.02	3013.92	3060.90	3042.18	3080.16	3124.62	3076.38	3124.62
50.0	2896.56	2926.26	2910.60	2887.02	2933.64	2913.48	2949.30	2996.82	2951.82	2996.82
52.5	2767.68	2795.40	2779.38	2753.64	2802.96	2781.72	2819.34	2870.10	2819.52	2870.10
55.0	2632.86	2664.90	2651.22	2622.96	2671.92	2650.14	2692.26	2742.12	2689.02	2742.12
57.5	2499.48	2531.70	2518.56	2490.30	2539.80	2515.14	2560.86	2610.36	2559.96	2610.36
60.0	2359.62	2395.98	2382.66	2355.12	2404.80	2382.12	2426.58	2478.42	2429.82	2478.42
62.5	2219.76	2257.56	2243.52	2218.86	2266.92	2245.86	2292.84	2343.06	2295.72	2343.06
65.0	2075.94	2115.54	2104.38	2080.44	2130.12	2107.62	2153.52	2203.74	2157.30	2203.74
67.5	1933.74	1968.84	1962.00	1938.24	1990.98	1967.22	2014.20	2062.08	2012.58	2062.08
70.0	1789.74	1822.68	1817.10	1797.84	1843.74	1824.30	1868.40	1917.36	1873.26	1917.36
72.5	1640.34	1672.20	1669.32	1655.28	1699.38	1681.20	1722.60	1769.76	1728.54	1769.76
75.0	1492.92	1524.78	1520.10	1512.36	1556.28	1537.02	1577.16	1620.90	1585.62	1620.90
77.5	1350.72	1376.10	1378.26	1369.44	1416.96	1394.46	1434.42	1476.54	1441.80	1476.54
80.0	1212.84	1231.56	1235.16	1233.18	1275.12	1257.48	1291.50	1331.64	1300.14	1331.64
82.5	1075.14	1092.24	1095.84	1100.52	1133.10	1124.10	1151.10	1189.80	1162.26	1189.80
85.0	957.24	955.62	961.02	979.56	998.64	995.22	1021.68	1053.72	1034.82	1053.72
87.5	708.48	710.28	768.06	792.54	847.26	863.82	894.24	921.24	912.96	921.24
90.0	452.88	466.56	474.66	484.74	532.08	544.86	570.78	595.44	568.26	595.44
92.5	488.52	512.10	472.68	465.48	469.44	445.86	448.74	454.32	442.44	454.32
95.0	495.72	525.24	573.48	537.12	509.04	544.32	522.90	542.70	537.30	542.70
97.5	449.64	459.72	497.52	509.94	485.82	475.38	520.20	478.44	468.18	478.44
100.0	468.18	455.58	429.12	466.02	462.42	427.14	442.26	457.56	445.32	457.56
102.5	475.38	458.46	425.52	438.66	453.06	434.16	419.76	459.54	474.30	459.54
105.0	442.44	454.86	437.94	421.92	455.22	429.48	433.80	454.68	463.50	454.68
107.5	423.72	434.88	439.38	430.74	454.50	431.64	442.80	441.72	438.48	441.72
110.0	393.66	406.80	417.42	429.84	435.42	426.06	437.40	422.64	410.76	422.64
112.5	356.04	367.38	395.64	401.04	397.62	405.00	407.16	382.32	356.22	382.32
115.0	314.82	344.16	368.28	362.70	378.72	378.00	363.24	356.76	325.62	356.76
117.5	284.76	326.16	341.82	334.26	357.48	349.92	336.78	337.50	302.58	337.50
120.0	259.38	306.36	317.70	315.36	339.30	323.64	319.32	313.92	281.88	313.92
122.5	243.54	289.08	295.38	301.32	320.76	300.96	302.76	295.74	265.14	295.74
125.0	232.92	275.40	279.18	285.12	303.48	280.80	287.46	280.08	251.10	280.08
127.5	223.56	258.66	263.88	272.88	286.74	265.68	270.54	264.06	238.32	264.06
130.0	232.92	248.22	257.94	263.52	275.58	263.88	260.10	255.60	237.96	255.60
132.5	231.84	257.58	258.30	271.62	288.36	268.02	259.92	261.18	247.14	261.18

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CANDELA TABULATION - (Cont.)

135.0	220.68	259.74	248.76	266.58	287.64	257.58	259.74	259.74	240.12	259.74
137.5	213.48	244.62	236.88	259.02	271.62	245.34	258.30	250.20	233.10	250.20
140.0	205.56	228.06	226.62	249.30	254.88	232.56	252.54	235.80	229.50	235.80
142.5	198.00	211.50	213.48	236.52	239.22	223.02	237.42	220.14	218.34	220.14
145.0	187.92	198.90	199.80	220.32	221.04	209.34	221.22	206.28	204.12	206.28
147.5	180.54	183.42	186.12	203.40	204.30	196.20	204.12	190.98	188.28	190.98
150.0	167.40	167.04	173.34	184.68	185.94	181.98	187.74	176.04	175.32	176.04
152.5	151.92	151.38	156.24	169.56	168.48	168.84	171.36	160.56	160.74	160.56
155.0	136.62	136.08	141.12	151.02	149.04	153.90	155.34	144.90	143.82	144.90
157.5	120.96	120.06	126.18	134.64	132.84	139.14	138.06	131.04	126.90	131.04
160.0	106.74	105.48	111.78	118.26	117.36	123.84	120.60	117.00	112.68	117.00
162.5	90.72	89.64	95.22	101.52	101.70	106.92	104.76	100.26	101.34	100.26
165.0	76.32	74.52	80.64	86.22	85.86	89.28	88.74	85.50	82.26	85.50
167.5	64.80	60.66	68.40	70.92	70.56	74.88	73.80	71.82	70.56	71.82
170.0	53.46	50.04	54.54	56.52	56.16	62.46	59.04	58.86	59.58	58.86
172.5	41.94	38.52	41.94	45.90	44.10	49.14	50.94	47.52	43.38	47.52
175.0	32.40	32.04	34.38	36.00	35.46	37.62	37.26	38.52	39.24	38.52
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	4695.12	4695.12	4695.12	4695.12	4695.12	4695.12	4695.12
2.5	4693.50	4687.20	4689.00	4685.94	4686.84	4690.80	4687.92
5.0	4684.32	4683.24	4685.94	4682.52	4674.24	4672.98	4670.82
7.5	4671.54	4666.68	4660.02	4662.36	4659.84	4649.22	4648.32
10.0	4639.32	4618.80	4618.26	4614.84	4624.74	4617.54	4615.74
12.5	4581.90	4573.44	4566.78	4565.52	4561.02	4573.08	4566.24
15.0	4523.94	4513.50	4505.76	4501.80	4495.14	4514.22	4501.26
17.5	4454.10	4443.48	4443.66	4426.02	4421.34	4438.98	4424.76
20.0	4376.34	4363.56	4356.72	4345.92	4337.10	4346.10	4336.56
22.5	4283.64	4270.50	4282.92	4246.56	4246.38	4244.40	4242.42
25.0	4188.24	4183.38	4165.92	4155.48	4146.66	4141.26	4132.44
27.5	4068.54	4057.56	4053.60	4026.96	4033.44	4032.18	4023.18
30.0	3962.16	3939.84	3939.84	3908.52	3922.92	3913.92	3908.34
32.5	3836.16	3816.36	3817.62	3789.36	3800.70	3797.10	3784.50
35.0	3710.70	3693.06	3697.20	3663.72	3672.54	3672.72	3659.94
37.5	3583.26	3566.16	3576.42	3531.24	3545.28	3549.60	3533.76
40.0	3463.02	3433.14	3443.22	3402.90	3418.92	3426.48	3407.40
42.5	3334.68	3301.38	3316.50	3273.48	3292.74	3302.64	3279.06
45.0	3207.42	3172.68	3188.88	3146.04	3167.10	3175.74	3153.42
47.5	3080.16	3042.18	3060.90	3013.92	3040.02	3052.44	3024.90
50.0	2949.30	2913.48	2933.64	2887.02	2910.60	2926.26	2896.56
52.5	2819.34	2781.72	2802.96	2753.64	2779.38	2795.40	2767.68
55.0	2692.26	2650.14	2671.92	2622.96	2651.22	2664.90	2632.86
57.5	2560.86	2515.14	2539.80	2490.30	2518.56	2531.70	2499.48
60.0	2426.58	2382.12	2404.80	2355.12	2382.66	2395.98	2359.62
62.5	2292.84	2245.86	2266.92	2218.86	2243.52	2257.56	2219.76
65.0	2153.52	2107.62	2130.12	2080.44	2104.38	2115.54	2075.94
67.5	2014.20	1967.22	1990.98	1938.24	1962.00	1968.84	1933.74
70.0	1868.40	1824.30	1843.74	1797.84	1817.10	1822.68	1789.74
72.5	1722.60	1681.20	1699.38	1655.28	1669.32	1672.20	1640.34
75.0	1577.16	1537.02	1556.28	1512.36	1520.10	1524.78	1492.92
77.5	1434.42	1394.46	1416.96	1369.44	1378.26	1376.10	1350.72
80.0	1291.50	1257.48	1275.12	1233.18	1235.16	1231.56	1212.84

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CANDELA TABULATION - (Cont.)

82.5	1151.10	1124.10	1133.10	1100.52	1095.84	1092.24	1075.14
85.0	1021.68	995.22	998.64	979.56	961.02	955.62	957.24
87.5	894.24	863.82	847.26	792.54	768.06	710.28	708.48
90.0	570.78	544.86	532.08	484.74	474.66	466.56	452.88
92.5	448.74	445.86	469.44	465.48	472.68	512.10	488.52
95.0	522.90	544.32	509.04	537.12	573.48	525.24	495.72
97.5	520.20	475.38	485.82	509.94	497.52	459.72	449.64
100.0	442.26	427.14	462.42	466.02	429.12	455.58	468.18
102.5	419.76	434.16	453.06	438.66	425.52	458.46	475.38
105.0	433.80	429.48	455.22	421.92	437.94	454.86	442.44
107.5	442.80	431.64	454.50	430.74	439.38	434.88	423.72
110.0	437.40	426.06	435.42	429.84	417.42	406.80	393.66
112.5	407.16	405.00	397.62	401.04	395.64	367.38	356.04
115.0	363.24	378.00	378.72	362.70	368.28	344.16	314.82
117.5	336.78	349.92	357.48	334.26	341.82	326.16	284.76
120.0	319.32	323.64	339.30	315.36	317.70	306.36	259.38
122.5	302.76	300.96	320.76	301.32	295.38	289.08	243.54
125.0	287.46	280.80	303.48	285.12	279.18	275.40	232.92
127.5	270.54	265.68	286.74	272.88	263.88	258.66	223.56
130.0	260.10	263.88	275.58	263.52	257.94	248.22	232.92
132.5	259.92	268.02	288.36	271.62	258.30	257.58	231.84
135.0	259.74	257.58	287.64	266.58	248.76	259.74	220.68
137.5	258.30	245.34	271.62	259.02	236.88	244.62	213.48
140.0	252.54	232.56	254.88	249.30	226.62	228.06	205.56
142.5	237.42	223.02	239.22	236.52	213.48	211.50	198.00
145.0	221.22	209.34	221.04	220.32	199.80	198.90	187.92
147.5	204.12	196.20	204.30	203.40	186.12	183.42	180.54
150.0	187.74	181.98	185.94	184.68	173.34	167.04	167.40
152.5	171.36	168.84	168.48	169.56	156.24	151.38	151.92
155.0	155.34	153.90	149.04	151.02	141.12	136.08	136.62
157.5	138.06	139.14	132.84	134.64	126.18	120.06	120.96
160.0	120.60	123.84	117.36	118.26	111.78	105.48	106.74
162.5	104.76	106.92	101.70	101.52	95.22	89.64	90.72
165.0	88.74	89.28	85.86	86.22	80.64	74.52	76.32
167.5	73.80	74.88	70.56	70.92	68.40	60.66	64.80
170.0	59.04	62.46	56.16	56.52	54.54	50.04	53.46
172.5	50.94	49.14	44.10	45.90	41.94	38.52	41.94
175.0	37.26	37.62	35.46	36.00	34.38	32.04	32.40
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1718.48	N.A.	9.70
0-30	3637.29	N.A.	20.60
0-40	5949.37	N.A.	33.70
0-60	10799.74	N.A.	61.20
0-80	14542.69	N.A.	82.50
0-90	15589.28	N.A.	88.40
10-90	15144.22	N.A.	85.90
20-40	4230.89	N.A.	24.00
20-50	6692.04	N.A.	38.00
40-70	6955.72	N.A.	39.40
60-80	3742.95	N.A.	21.20
70-80	1637.6	N.A.	9.30
80-90	1046.59	N.A.	5.90
90-110	1004.26	N.A.	5.70
90-120	1364.89	N.A.	7.70
90-130	1617.45	N.A.	9.20
90-150	1946.59	N.A.	11.00
90-180	2043.92	N.A.	11.60
110-180	1039.66	N.A.	5.90
0-180	17633.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	445.06
10-20	1273.42
20-30	1918.81
30-40	2312.09
40-50	2461.15
50-60	2389.22
60-70	2105.35
70-80	1637.6
80-90	1046.59
90-100	538.07
100-110	466.20
110-120	360.63
120-130	252.56
130-140	197.32
140-150	131.82
150-160	68.79
160-170	24.89
170-180	3.65

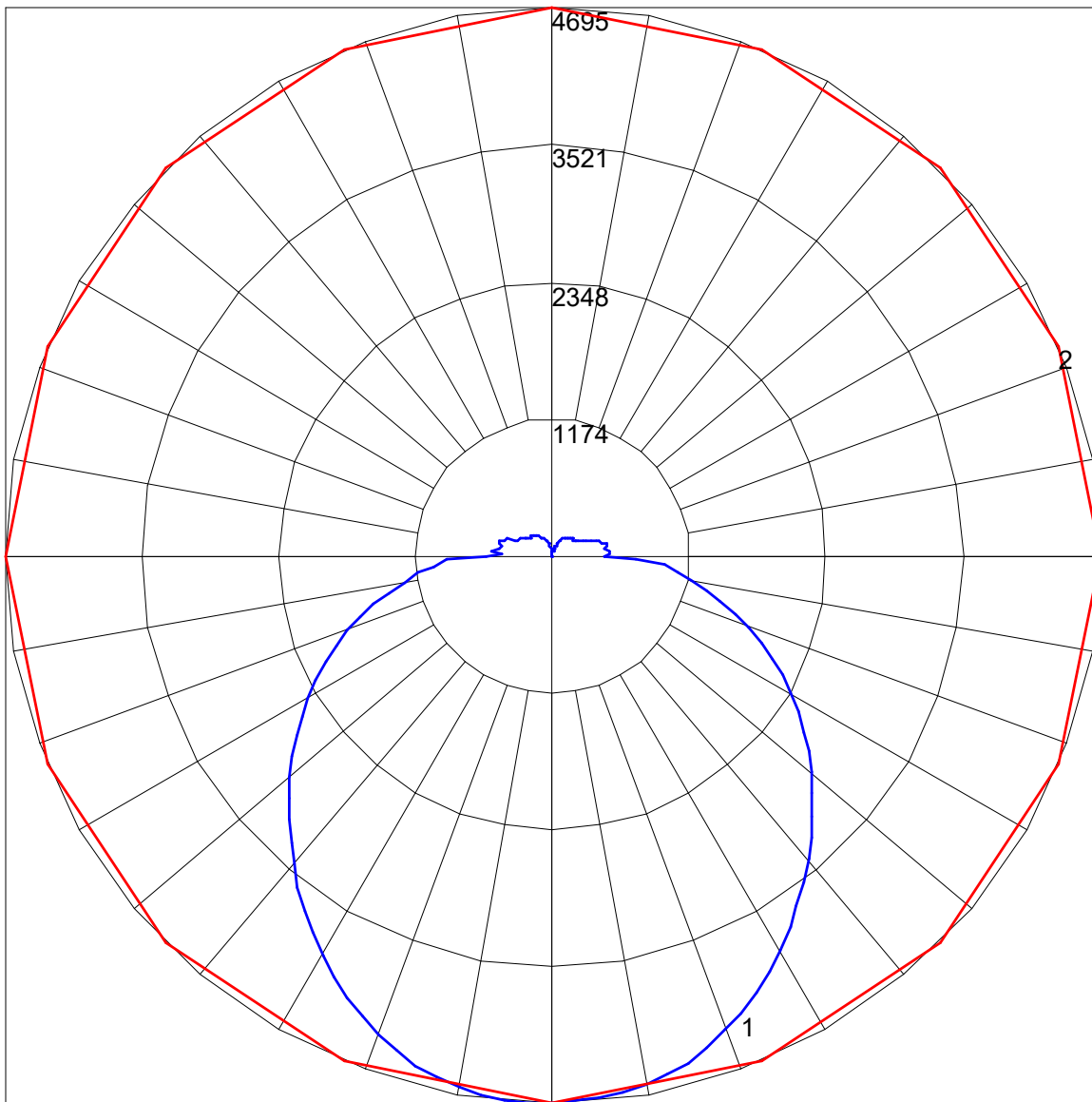
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	104	98	93	88	100	95	90	86	88	84	81	82	79	76	77	74	72	69
2	94	84	77	70	90	81	74	69	76	70	65	71	66	62	66	62	59	56
3	85	73	65	57	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	55	48	43	51	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	42	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	38	33	41	36	31	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	30	25	50	38	30	24	36	29	24	34	28	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 4695.12 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)