



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BHEX-PRO-LED35-LO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] BHEX-PRO-LED35-LO  
 [TESTLAB] INTERTEK  
 [ISSUE DATE] 8-13-18  
 [MANUFACTURER] PRUDENTIAL  
 [\_TOTAL LUMINAIRE LUMENS] 9795.2

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	44
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	41919	26994	24175
55	41982	23781	20813
65	42983	20580	17612
75	46062	16905	14169
85	61596	12839	10468

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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>
<b>0.0</b>	1538.956	1538.956	1538.956	1538.956	1538.956	1538.956	1538.956	1538.956	1538.956	1538.956
<b>2.5</b>	1536.596	1537.540	1536.242	1535.947	1536.950	1536.360	1538.425	1538.720	1537.481	1538.720
<b>5.0</b>	1530.991	1531.699	1532.112	1534.826	1535.947	1535.062	1535.416	1535.475	1534.885	1535.475
<b>7.5</b>	1523.616	1523.911	1527.392	1528.218	1527.451	1529.634	1531.227	1529.044	1526.979	1529.044
<b>10.0</b>	1512.937	1513.527	1515.887	1512.642	1513.763	1513.940	1520.666	1519.899	1516.477	1519.899
<b>12.5</b>	1496.712	1498.954	1495.001	1496.476	1496.889	1499.072	1501.845	1506.860	1502.553	1506.860
<b>15.0</b>	1475.413	1479.661	1473.407	1475.590	1476.888	1479.425	1482.847	1489.337	1484.499	1489.337
<b>17.5</b>	1450.338	1454.999	1449.217	1450.751	1456.533	1456.474	1459.955	1466.622	1461.725	1466.622
<b>20.0</b>	1421.428	1424.555	1421.605	1424.496	1428.036	1430.278	1434.467	1438.715	1435.411	1438.715
<b>22.5</b>	1390.571	1391.220	1391.869	1391.928	1403.846	1399.775	1404.082	1407.209	1405.085	1407.209
<b>25.0</b>	1354.522	1357.413	1359.183	1362.074	1365.496	1371.219	1372.812	1374.346	1372.045	1374.346
<b>27.5</b>	1318.709	1321.659	1322.072	1319.948	1328.680	1329.978	1333.577	1339.005	1335.465	1339.005
<b>30.0</b>	1281.067	1282.896	1285.846	1281.126	1291.392	1291.392	1298.708	1302.720	1297.056	1302.720
<b>32.5</b>	1240.475	1244.605	1245.785	1242.068	1251.331	1250.918	1257.408	1264.488	1257.349	1264.488
<b>35.0</b>	1199.647	1203.836	1203.777	1200.886	1211.860	1210.503	1216.285	1223.837	1216.816	1223.837
<b>37.5</b>	1158.288	1163.480	1162.064	1157.462	1172.271	1168.908	1174.513	1184.720	1175.339	1184.720
<b>40.0</b>	1116.870	1123.124	1120.646	1115.395	1128.611	1125.307	1135.101	1145.957	1133.331	1145.957
<b>42.5</b>	1074.803	1082.532	1079.287	1072.974	1087.075	1082.119	1093.034	1104.362	1091.264	1104.362
<b>45.0</b>	1033.621	1040.937	1038.105	1031.202	1045.244	1039.934	1051.321	1062.649	1049.669	1062.649
<b>47.5</b>	991.495	1000.522	996.451	987.896	1003.295	997.159	1009.608	1024.181	1008.369	1024.181
<b>50.0</b>	949.428	959.163	954.030	946.301	961.582	954.974	966.715	982.291	967.541	982.291
<b>52.5</b>	907.184	916.270	911.019	902.582	918.748	911.786	924.117	940.755	924.176	940.755
<b>55.0</b>	862.993	873.495	869.011	859.748	875.796	868.657	882.463	898.806	881.401	898.806
<b>57.5</b>	819.274	829.835	825.528	816.265	832.490	824.407	839.393	855.618	839.098	855.618
<b>60.0</b>	773.431	785.349	780.983	771.956	788.240	780.806	795.379	812.371	796.441	812.371
<b>62.5</b>	727.588	739.978	735.376	727.293	743.046	736.143	751.542	768.003	752.486	768.003
<b>65.0</b>	680.447	693.427	689.769	681.922	698.206	690.831	705.876	722.337	707.115	722.337
<b>67.5</b>	633.837	645.342	643.100	635.312	652.599	644.811	660.210	675.904	659.679	675.904
<b>70.0</b>	586.637	597.434	595.605	589.292	604.337	597.965	612.420	628.468	614.013	628.468
<b>72.5</b>	537.667	548.110	547.166	542.564	557.019	551.060	564.630	580.088	566.577	580.088
<b>75.0</b>	489.346	499.789	498.255	495.718	510.114	503.801	516.958	531.295	519.731	531.295
<b>77.5</b>	442.736	451.055	451.763	448.872	464.448	457.073	470.171	483.977	472.590	483.977
<b>80.0</b>	397.542	403.678	404.858	404.209	417.956	412.174	423.325	436.482	426.157	436.482
<b>82.5</b>	352.407	358.012	359.192	360.726	371.405	368.455	377.305	389.990	380.963	389.990
<b>85.0</b>	313.762	313.231	315.001	321.078	327.332	326.211	334.884	345.386	339.191	345.386
<b>87.5</b>	232.224	232.814	251.753	259.777	277.713	283.141	293.112	301.962	299.248	301.962
<b>90.0</b>	148.444	152.928	155.583	158.887	174.404	178.593	187.089	195.172	186.263	195.172
<b>92.5</b>	160.126	167.855	154.934	152.574	153.872	146.143	147.087	148.916	145.022	148.916
<b>95.0</b>	162.486	172.162	187.974	176.056	166.852	178.416	171.395	177.885	176.115	177.885
<b>97.5</b>	147.382	150.686	163.076	167.147	159.241	155.819	170.510	156.822	153.459	156.822
<b>100.0</b>	153.459	149.329	140.656	152.751	151.571	140.007	144.963	149.978	145.966	149.978
<b>102.5</b>	155.819	150.273	139.476	143.783	148.503	142.308	137.588	150.627	155.465	150.627
<b>105.0</b>	145.022	149.093	143.547	138.296	149.211	140.774	142.190	149.034	151.925	149.034
<b>107.5</b>	138.886	142.544	144.019	141.187	148.975	141.482	145.140	144.786	143.724	144.786
<b>110.0</b>	129.033	133.340	136.821	140.892	142.721	139.653	143.370	138.532	134.638	138.532
<b>112.5</b>	116.702	120.419	129.682	131.452	130.331	132.750	133.458	125.316	116.761	125.316
<b>115.0</b>	103.191	112.808	120.714	118.885	124.136	123.900	119.062	116.938	106.731	116.938
<b>117.5</b>	93.338	106.908	112.041	109.563	117.174	114.696	110.389	110.625	99.179	110.625
<b>120.0</b>	85.019	100.418	104.135	103.368	111.215	106.082	104.666	102.896	92.394	102.896
<b>122.5</b>	79.827	94.754	96.819	98.766	105.138	98.648	99.238	96.937	86.907	96.937
<b>125.0</b>	76.346	90.270	91.509	93.456	99.474	92.040	94.223	91.804	82.305	91.804
<b>127.5</b>	73.278	84.783	86.494	89.444	93.987	87.084	88.677	86.553	78.116	86.553
<b>130.0</b>	76.346	81.361	84.547	86.376	90.329	86.494	85.255	83.780	77.998	83.780
<b>132.5</b>	75.992	84.429	84.665	89.031	94.518	87.851	85.196	85.609	81.007	85.609

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**CANDELA TABULATION - (Cont.)**

135.0	72.334	85.137	81.538	87.379	94.282	84.429	85.137	85.137	78.706	85.137
137.5	69.974	80.181	77.644	84.901	89.031	80.417	84.665	82.010	76.405	82.010
140.0	67.378	74.753	74.281	81.715	83.544	76.228	82.777	77.290	75.225	77.290
142.5	64.900	69.325	69.974	77.526	78.411	73.101	77.821	72.157	71.567	72.157
145.0	61.596	65.195	65.490	72.216	72.452	68.617	72.511	67.614	66.906	67.614
147.5	59.177	60.121	61.006	66.670	66.965	64.310	66.906	62.599	61.714	62.599
150.0	54.870	54.752	56.817	60.534	60.947	59.649	61.537	57.702	57.466	57.702
152.5	49.796	49.619	51.212	55.578	55.224	55.342	56.168	52.628	52.687	52.628
155.0	44.781	44.604	46.256	49.501	48.852	50.445	50.917	47.495	47.141	47.495
157.5	39.648	39.353	41.359	44.132	43.542	45.607	45.253	42.952	41.595	42.952
160.0	34.987	34.574	36.639	38.763	38.468	40.592	39.530	38.350	36.934	38.350
162.5	29.736	29.382	31.211	33.276	33.335	35.046	34.338	32.863	33.217	32.863
165.0	25.016	24.426	26.432	28.261	28.143	29.264	29.087	28.025	26.963	28.025
167.5	21.240	19.883	22.420	23.246	23.128	24.544	24.190	23.541	23.128	23.541
170.0	17.523	16.402	17.877	18.526	18.408	20.473	19.352	19.293	19.529	19.293
172.5	13.747	12.626	13.747	15.045	14.455	16.107	16.697	15.576	14.219	15.576
175.0	10.620	10.502	11.269	11.800	11.623	12.331	12.213	12.626	12.862	12.626
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	1538.956	1538.956	1538.956	1538.956	1538.956	1538.956	1538.956
2.5	1538.425	1536.360	1536.950	1535.947	1536.242	1537.540	1536.596
5.0	1535.416	1535.062	1535.947	1534.826	1532.112	1531.699	1530.991
7.5	1531.227	1529.634	1527.451	1528.218	1527.392	1523.911	1523.616
10.0	1520.666	1513.940	1513.763	1512.642	1515.887	1513.527	1512.937
12.5	1501.845	1499.072	1496.889	1496.476	1495.001	1498.954	1496.712
15.0	1482.847	1479.425	1476.888	1475.590	1473.407	1479.661	1475.413
17.5	1459.955	1456.474	1456.533	1450.751	1449.217	1454.999	1450.338
20.0	1434.467	1430.278	1428.036	1424.496	1421.605	1424.555	1421.428
22.5	1404.082	1399.775	1403.846	1391.928	1391.869	1391.220	1390.571
25.0	1372.812	1371.219	1365.496	1362.074	1359.183	1357.413	1354.522
27.5	1333.577	1329.978	1328.680	1319.948	1322.072	1321.659	1318.709
30.0	1298.708	1291.392	1291.392	1281.126	1285.846	1282.896	1281.067
32.5	1257.408	1250.918	1251.331	1242.068	1245.785	1244.605	1240.475
35.0	1216.285	1210.503	1211.860	1200.886	1203.777	1203.836	1199.647
37.5	1174.513	1168.908	1172.271	1157.462	1162.064	1163.480	1158.288
40.0	1135.101	1125.307	1128.611	1115.395	1120.646	1123.124	1116.870
42.5	1093.034	1082.119	1087.075	1072.974	1079.287	1082.532	1074.803
45.0	1051.321	1039.934	1045.244	1031.202	1038.105	1040.937	1033.621
47.5	1009.608	997.159	1003.295	987.896	996.451	1000.522	991.495
50.0	966.715	954.974	961.582	946.301	954.030	959.163	949.428
52.5	924.117	911.786	918.748	902.582	911.019	916.270	907.184
55.0	882.463	868.657	875.796	859.748	869.011	873.495	862.993
57.5	839.393	824.407	832.490	816.265	825.528	829.835	819.274
60.0	795.379	780.806	788.240	771.956	780.983	785.349	773.431
62.5	751.542	736.143	743.046	727.293	735.376	739.978	727.588
65.0	705.876	690.831	698.206	681.922	689.769	693.427	680.447
67.5	660.210	644.811	652.599	635.312	643.100	645.342	633.837
70.0	612.420	597.965	604.337	589.292	595.605	597.434	586.637
72.5	564.630	551.060	557.019	542.564	547.166	548.110	537.667
75.0	516.958	503.801	510.114	495.718	498.255	499.789	489.346
77.5	470.171	457.073	464.448	448.872	451.763	451.055	442.736
80.0	423.325	412.174	417.956	404.209	404.858	403.678	397.542

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**CANDELA TABULATION - (Cont.)**

82.5	377.305	368.455	371.405	360.726	359.192	358.012	352.407
85.0	334.884	326.211	327.332	321.078	315.001	313.231	313.762
87.5	293.112	283.141	277.713	259.777	251.753	232.814	232.224
90.0	187.089	178.593	174.404	158.887	155.583	152.928	148.444
92.5	147.087	146.143	153.872	152.574	154.934	167.855	160.126
95.0	171.395	178.416	166.852	176.056	187.974	172.162	162.486
97.5	170.510	155.819	159.241	167.147	163.076	150.686	147.382
100.0	144.963	140.007	151.571	152.751	140.656	149.329	153.459
102.5	137.588	142.308	148.503	143.783	139.476	150.273	155.819
105.0	142.190	140.774	149.211	138.296	143.547	149.093	145.022
107.5	145.140	141.482	148.975	141.187	144.019	142.544	138.886
110.0	143.370	139.653	142.721	140.892	136.821	133.340	129.033
112.5	133.458	132.750	130.331	131.452	129.682	120.419	116.702
115.0	119.062	123.900	124.136	118.885	120.714	112.808	103.191
117.5	110.389	114.696	117.174	109.563	112.041	106.908	93.338
120.0	104.666	106.082	111.215	103.368	104.135	100.418	85.019
122.5	99.238	98.648	105.138	98.766	96.819	94.754	79.827
125.0	94.223	92.040	99.474	93.456	91.509	90.270	76.346
127.5	88.677	87.084	93.987	89.444	86.494	84.783	73.278
130.0	85.255	86.494	90.329	86.376	84.547	81.361	76.346
132.5	85.196	87.851	94.518	89.031	84.665	84.429	75.992
135.0	85.137	84.429	94.282	87.379	81.538	85.137	72.334
137.5	84.665	80.417	89.031	84.901	77.644	80.181	69.974
140.0	82.777	76.228	83.544	81.715	74.281	74.753	67.378
142.5	77.821	73.101	78.411	77.526	69.974	69.325	64.900
145.0	72.511	68.617	72.452	72.216	65.490	65.195	61.596
147.5	66.906	64.310	66.965	66.670	61.006	60.121	59.177
150.0	61.537	59.649	60.947	60.534	56.817	54.752	54.870
152.5	56.168	55.342	55.224	55.578	51.212	49.619	49.796
155.0	50.917	50.445	48.852	49.501	46.256	44.604	44.781
157.5	45.253	45.607	43.542	44.132	41.359	39.353	39.648
160.0	39.530	40.592	38.468	38.763	36.639	34.574	34.987
162.5	34.338	35.046	33.335	33.276	31.211	29.382	29.736
165.0	29.087	29.264	28.143	28.261	26.432	24.426	25.016
167.5	24.190	24.544	23.128	23.246	22.420	19.883	21.240
170.0	19.352	20.473	18.408	18.526	17.877	16.402	17.523
172.5	16.697	16.107	14.455	15.045	13.747	12.626	13.747
175.0	12.213	12.331	11.623	11.800	11.269	10.502	10.620
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	563.28	N.A.	9.70
0-30	1192.22	N.A.	20.60
0-40	1950.07	N.A.	33.70
0-60	3539.91	N.A.	61.20
0-80	4766.77	N.A.	82.50
0-90	5109.82	N.A.	88.40
10-90	4963.94	N.A.	85.90
20-40	1386.79	N.A.	24.00
20-50	2193.5	N.A.	38.00
40-70	2279.93	N.A.	39.40
60-80	1226.85	N.A.	21.20
70-80	536.77	N.A.	9.30
80-90	343.05	N.A.	5.90
90-110	329.17	N.A.	5.70
90-120	447.38	N.A.	7.70
90-130	530.16	N.A.	9.20
90-150	638.05	N.A.	11.00
90-180	669.95	N.A.	11.60
110-180	340.78	N.A.	5.90
0-180	5779.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.88
10-20	417.40
20-30	628.94
30-40	757.85
40-50	806.71
50-60	783.13
60-70	690.09
70-80	536.77
80-90	343.05
90-100	176.37
100-110	152.81
110-120	118.21
120-130	82.78
130-140	64.68
140-150	43.21
150-160	22.55
160-170	8.16
170-180	1.20

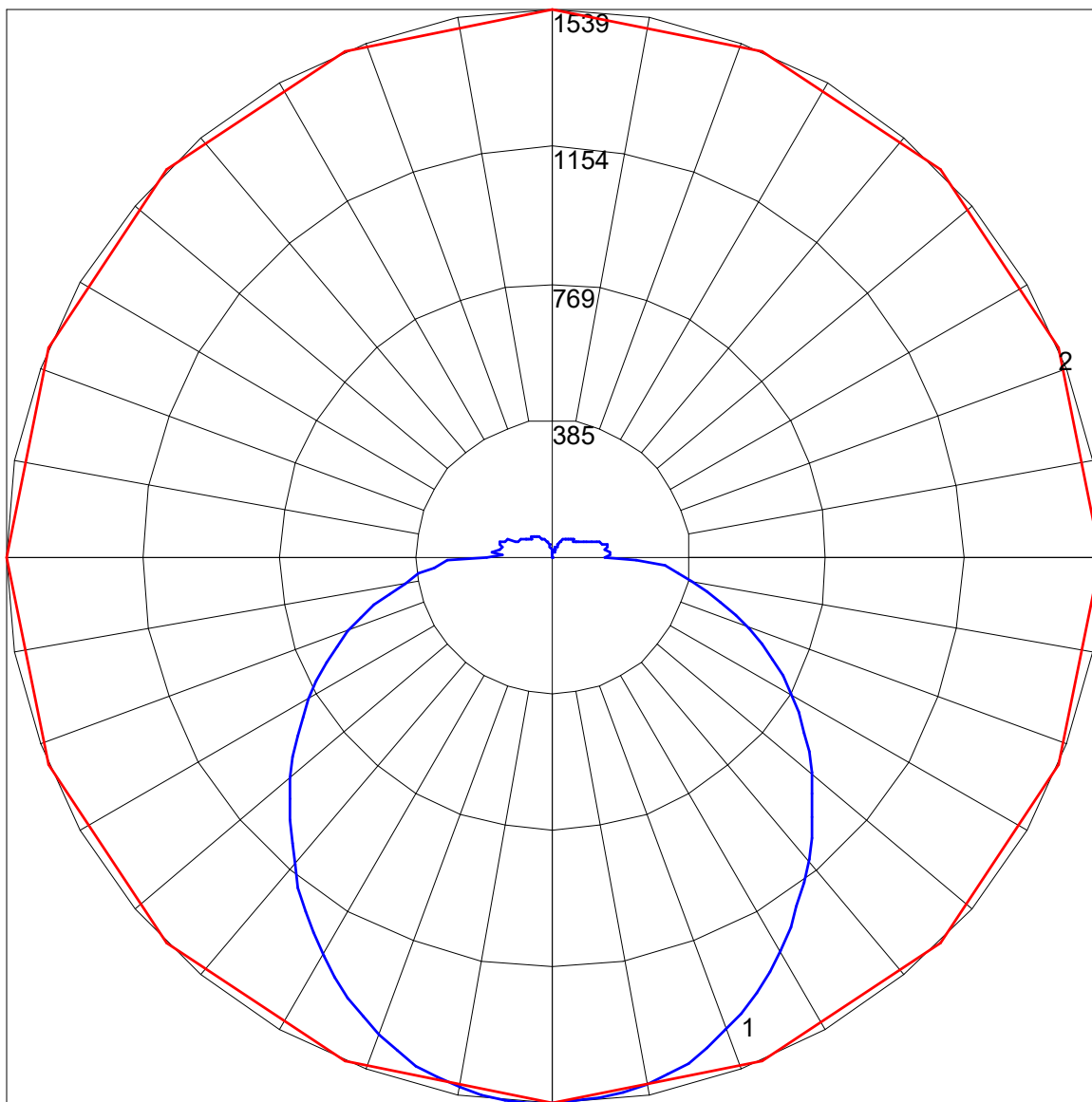
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1538.956 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.)