



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : LHBIP-LED320DMV50K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST]  
 [DATE] 2016-12-7  
 [MANUFAC] Mobern Lighting Co.  
 [LUMCAT] LHBIP-LED320DMV50K  
 [LUMINAIRE] High-Bay  
 [LAMPCAT]  
 [LAMP] S01

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	47031
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	322.51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.10 m
Luminous Width (90-270)	0.50 m
Luminous Height	0.04 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28632	27460	27864
55	25388	26014	26426
65	19475	20973	23330
75	12266	12294	16222
85	4151	3107	5781

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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	16511.520	16511.520	16511.520	16511.520	16511.520	16511.520	16511.520	16511.520	16511.520	16511.520
5	16422.141	16384.029	16485.320	16451.980	16577.721	16451.980	16485.320	16384.029	16422.141	16384.029
10	16207.810	16180.030	16282.110	16266.550	16396.730	16266.550	16282.110	16180.030	16207.810	16180.030
15	15863.300	15846.310	15947.130	15948.240	16080.010	15948.240	15947.130	15846.310	15863.300	15846.310
20	15411.630	15375.590	15486.250	15510.850	15658.500	15510.850	15486.250	15375.590	15411.630	15375.590
25	14857.560	14828.190	14919.470	14936.940	15102.840	14936.940	14919.470	14828.190	14857.560	14828.190
30	14170.120	14171.710	14251.570	14256.330	14425.730	14256.330	14251.570	14171.710	14170.120	14171.710
35	13422.360	13369.970	13432.370	13466.020	13647.010	13466.020	13432.370	13369.970	13422.360	13369.970
40	12475.360	12479.810	12565.060	12565.860	12755.570	12565.860	12565.060	12479.810	12475.360	12479.810
45	11545.030	11466.920	11562.970	11811.750	11708.550	11811.750	11562.970	11466.920	11545.030	11466.920
50	10146.350	10178.580	10417.830	10407.200	10603.580	10407.200	10417.830	10178.580	10146.350	10178.580
55	8428.569	8537.796	9174.741	9181.567	9293.018	9181.567	9174.741	8537.796	8428.569	8537.796
60	6256.732	6774.290	7619.687	7775.271	7857.827	7775.271	7619.687	6774.290	6256.732	6774.290
65	4881.870	5051.744	5737.586	6267.051	6355.957	6267.051	5737.586	5051.744	4881.870	5051.744
70	3158.531	3530.505	3820.560	4725.492	4763.594	4725.492	3820.560	3530.505	3158.531	3530.505
75	1983.865	2177.870	2288.526	2912.770	2999.929	2912.770	2288.526	2177.870	1983.865	2177.870
80	836.824	1041.148	1096.555	1387.880	1708.258	1387.880	1096.555	1041.148	836.824	1041.148
85	281.799	425.953	289.102	398.646	530.735	398.646	289.102	425.953	281.799	425.953
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. 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	16511.520	16511.520	16511.520	16511.520	16511.520	16511.520	16511.520
5	16485.320	16451.980	16577.721	16451.980	16485.320	16384.029	16422.141
10	16282.110	16266.550	16396.730	16266.550	16282.110	16180.030	16207.810
15	15947.130	15948.240	16080.010	15948.240	15947.130	15846.310	15863.300
20	15486.250	15510.850	15658.500	15510.850	15486.250	15375.590	15411.630
25	14919.470	14936.940	15102.840	14936.940	14919.470	14828.190	14857.560
30	14251.570	14256.330	14425.730	14256.330	14251.570	14171.710	14170.120
35	13432.370	13466.020	13647.010	13466.020	13432.370	13369.970	13422.360
40	12565.060	12565.860	12755.570	12565.860	12565.060	12479.810	12475.360
45	11562.970	11811.750	11708.550	11811.750	11562.970	11466.920	11545.030
50	10417.830	10407.200	10603.580	10407.200	10417.830	10178.580	10146.350
55	9174.741	9181.567	9293.018	9181.567	9174.741	8537.796	8428.569
60	7619.687	7775.271	7857.827	7775.271	7619.687	6774.290	6256.732

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	5737.586	6267.051	6355.957	6267.051	5737.586	5051.744	4881.870
<b>70</b>	3820.560	4725.492	4763.594	4725.492	3820.560	3530.505	3158.531
<b>75</b>	2288.526	2912.770	2999.929	2912.770	2288.526	2177.870	1983.865
<b>80</b>	1096.555	1387.880	1708.258	1387.880	1096.555	1041.148	836.824
<b>85</b>	289.102	398.646	530.735	398.646	289.102	425.953	281.799
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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	6061.85	N.A.	12.90
0-30	12939.82	N.A.	27.50
0-40	21357.25	N.A.	45.40
0-60	38218.81	N.A.	81.30
0-80	46498.05	N.A.	98.90
0-90	47031.29	N.A.	100.00
10-90	45466.94	N.A.	96.70
20-40	15295.41	N.A.	32.50
20-50	24209.04	N.A.	51.50
40-70	22466.5	N.A.	47.80
60-80	8279.24	N.A.	17.60
70-80	2674.3	N.A.	5.70
80-90	533.24	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	47031.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1564.36
10-20	4497.49
20-30	6877.97
30-40	8417.43
40-50	8913.64
50-60	7947.92
60-70	5604.95
70-80	2674.3
80-90	533.24
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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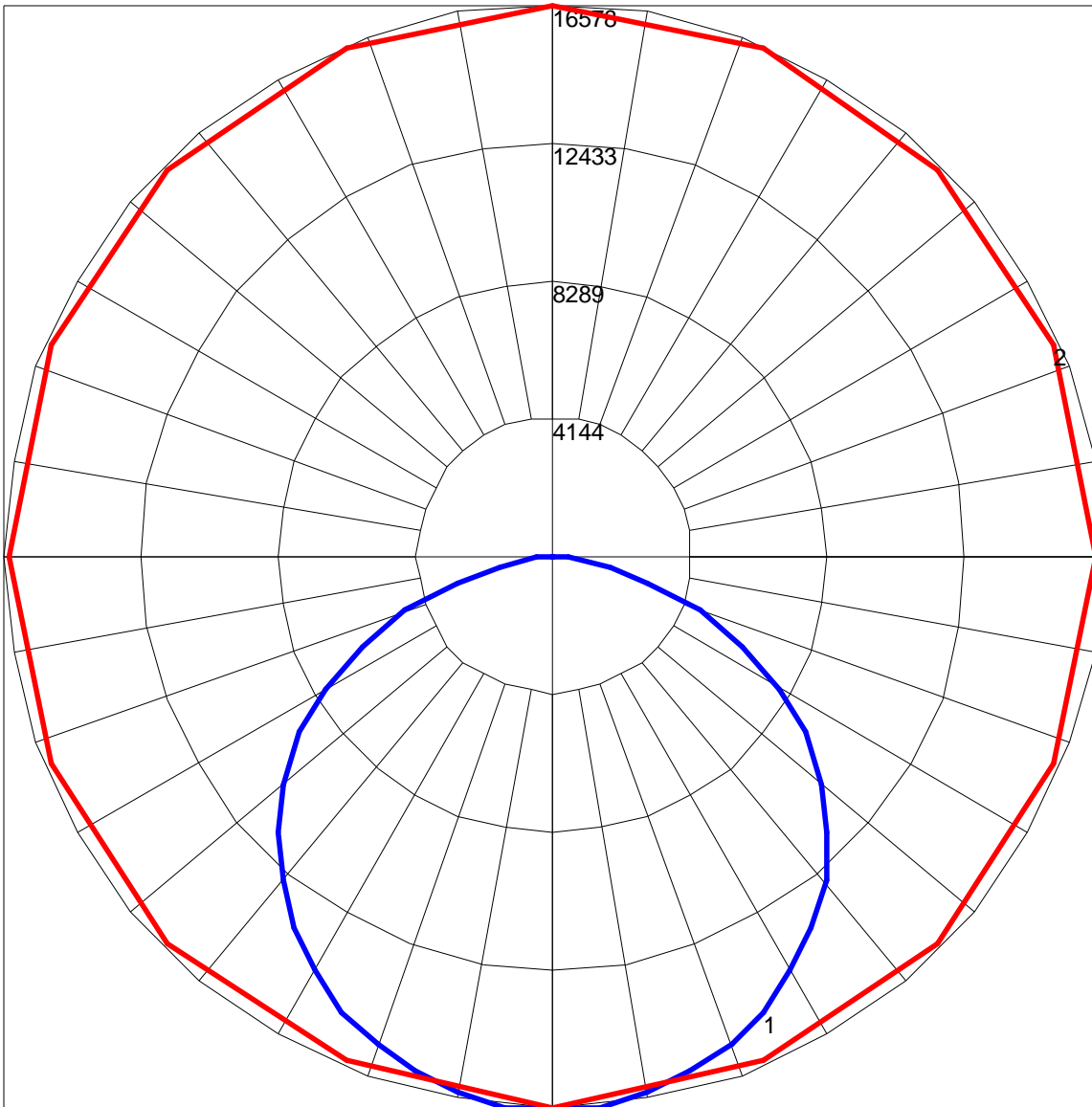
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

POLAR GRAPH



Maximum Candela = 16577.721 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)