



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBI-LED110MV50K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST] LCZP15040011  
 [TestLab] LCTECH  
 [DATE] 2015-04-10  
 [MANUFAC] Mobern Lighting  
 [LUMCAT] LHBI-LED110MV50K  
 [LUMINAIRE] Highbay  
 [LAMPCAT] LED  
 [LAMP] LED

**CHARACTERISTICS**

Lumens Per Lamp	10729.62 (1 lamp)
Total Lamp Lumens	10729.62
Luminaire Lumens	10730
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	112.91
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.57 m
Luminous Width (90-270)	0.30 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27539	21916	20077
55	25462	18998	15431
65	23216	13322	9111
75	18050	4436	521
85	7065	1303	826

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**CANDELA TABULATION**

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
<b>0</b>	4903.398	4903.398	4903.398	4903.398	4903.398	4903.398	4903.398
<b>5</b>	4888.084	4888.543	4925.111	4964.387	4973.767	4965.906	4953.195
<b>10</b>	4783.134	4814.490	4878.825	4803.949	4732.145	4665.401	4636.022
<b>15</b>	4663.770	4729.405	4660.639	4468.874	4394.798	4361.773	4340.831
<b>20</b>	4533.144	4588.268	4346.907	4200.190	4069.818	3922.540	3855.875
<b>25</b>	4354.773	4385.457	4076.542	3869.880	3549.237	3465.924	3445.389
<b>30</b>	4175.952	4068.076	3796.243	3392.112	3268.716	3244.500	3239.922
<b>35</b>	3910.647	3734.039	3409.291	3094.618	3060.354	3054.728	3050.156
<b>40</b>	3637.686	3411.033	2971.559	2863.731	2848.404	2843.846	2834.371
<b>45</b>	3302.115	3070.021	2664.347	2627.897	2618.251	2549.555	2407.286
<b>50</b>	2809.342	2538.800	2316.693	2364.612	2088.976	1801.700	1802.683
<b>55</b>	2476.473	2119.450	1967.380	1847.779	1582.733	1565.040	1500.897
<b>60</b>	2074.238	1738.738	1682.323	1282.755	1258.404	1006.281	972.111
<b>65</b>	1663.759	1392.213	1170.080	954.734	733.672	709.114	652.964
<b>70</b>	1226.841	1012.912	749.867	555.716	392.753	281.689	294.563
<b>75</b>	792.174	631.128	394.721	194.680	46.981	26.068	22.880
<b>80</b>	413.226	251.313	71.262	26.172	23.194	18.640	17.003
<b>85</b>	104.410	41.799	23.584	19.263	14.250	12.757	12.202
<b>90</b>	2.793	4.795	5.843	6.233	5.686	5.682	5.608
<b>95</b>	3.694	2.071	1.783	1.665	1.393	0.786	0.673
<b>100</b>	2.883	2.183	1.760	1.373	1.124	0.898	0.897
<b>105</b>	4.414	3.174	2.324	1.868	1.416	1.168	1.166
<b>110</b>	5.766	4.187	2.618	2.115	1.596	1.392	1.391
<b>115</b>	6.666	4.884	2.867	2.138	1.708	1.437	1.436
<b>120</b>	7.747	5.717	3.273	2.363	2.000	1.729	1.705
<b>125</b>	7.387	5.875	3.611	2.790	2.405	2.201	2.198
<b>130</b>	5.135	4.862	3.589	2.925	2.585	2.448	2.378
<b>135</b>	3.468	3.894	3.318	2.610	2.248	2.089	2.019
<b>140</b>	4.324	4.749	4.198	3.781	3.484	3.301	3.320
<b>145</b>	5.270	5.537	5.507	4.838	4.495	4.380	4.172
<b>150</b>	6.892	7.000	7.267	6.661	6.361	6.266	6.281
<b>155</b>	8.603	8.599	8.915	9.046	8.496	8.242	8.210
<b>160</b>	10.855	10.917	11.172	11.387	11.486	11.409	11.171
<b>165</b>	12.927	13.010	13.136	13.232	13.261	13.228	13.234
<b>170</b>	14.369	14.428	14.625	14.537	14.362	14.328	14.311
<b>175</b>	15.270	15.374	15.618	15.707	15.599	15.496	15.836
<b>180</b>	15.939	15.939	15.939	15.939	15.939	15.939	15.939

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1736.13	16.20	16.20
0-30	3528.45	32.90	32.90
0-40	5599.24	52.20	52.20
0-60	9310.43	86.80	86.80
0-80	10659.48	99.30	99.30
0-90	10703.84	99.80	99.80
10-90	10238.91	95.40	95.40
20-40	3863.11	36.00	36.00
20-50	5933.24	55.30	55.30
40-70	4719.74	44.00	44.00
60-80	1349.05	12.60	12.60
70-80	340.50	3.20	3.20
80-90	44.36	0.40	0.40
90-110	5.01	0.00	0.00
90-120	7.88	0.10	0.10
90-130	10.99	0.10	0.10
90-150	16.66	0.20	0.20
90-180	25.77	0.20	0.20
110-180	20.77	0.20	0.20
0-180	10729.61	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	464.93
10-20	1271.2
20-30	1792.33
30-40	2070.78
40-50	2070.13
50-60	1641.06
60-70	1008.55
70-80	340.50
80-90	44.36
90-100	2.80
100-110	2.21
110-120	2.87
120-130	3.11
130-140	2.49
140-150	3.18
150-160	4.02
160-170	3.65
170-180	1.45

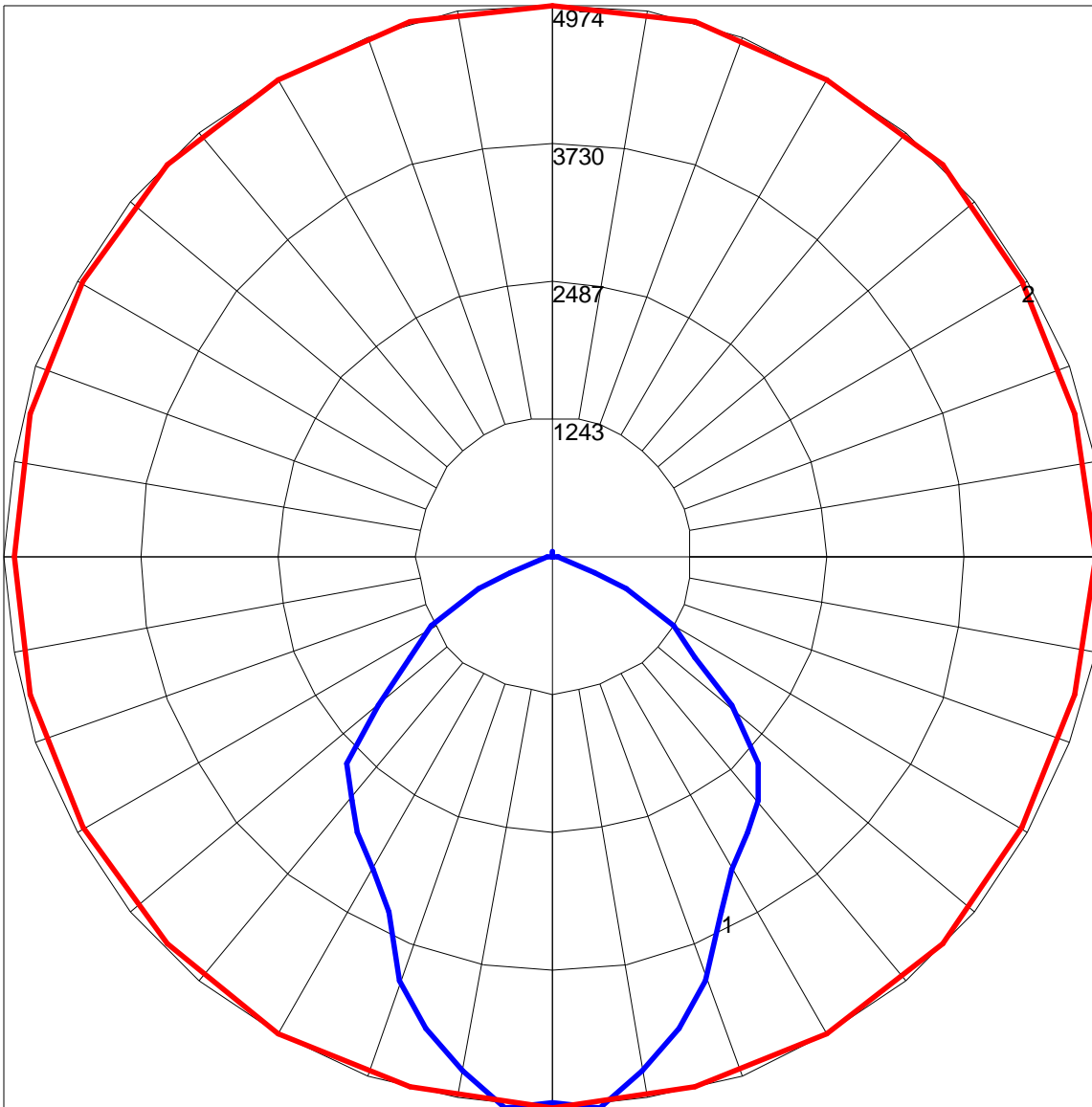
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	103	99	108	104	101	98	100	97	94	96	94	92	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 4973.767 Located At Horizontal Angle = 60, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)