



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LHBIP-LED240DMV50K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] BSR1612051301-9
 [DATE] 2016-12-7
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT] LHBIP-LED240DMV50K
 [LUMINAIRE] High-Bay
 [LAMPCAT]
 [LAMP] S01

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	34650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	243.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
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	21098	19454	20620
55	18909	18473	19539
65	14716	14395	17174
75	9579	8143	12501
85	2920	2368	4438

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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	12296.7801	2296.7801	2296.7801	2296.7801	2296.7801	2296.7801	2296.7801	2296.7801	2296.7801	2296.7801
5	12245.1001	2244.3201	2238.0901	2253.6601	2294.9401	2253.6601	2238.0901	2244.3201	2245.1001	2244.3201
10	12089.3401	2078.0501	2054.3001	2110.3701	2158.6501	2110.3701	2054.3001	2078.0501	2089.3401	2078.0501
15	11810.5501	1821.8401	1781.3501	1867.0101	1932.8101	1867.0101	1781.3501	1821.8401	1810.5501	1821.8401
20	11496.7101	1487.7601	1406.7701	1536.8201	1600.2901	1536.8201	1406.7701	1487.7601	1496.7101	1487.7601
25	11067.6201	11070.3501	10960.1501	11117.8501	11195.3401	11117.8501	10960.1501	11070.3501	11067.6201	11070.3501
30	10552.8701	10563.7701	10446.9601	10606.6001	10692.2601	10606.6001	10446.9601	10563.7701	10552.8701	10563.7701
35	9964.131	9972.307	9827.849	9998.007	10108.9809	9998.007	9827.849	9972.307	9964.131	9972.307
40	9281.165	9292.847	9274.156	9323.996	9434.579	9323.996	9274.156	9292.847	9281.165	9292.847
45	8507.086	8437.776	8191.691	8693.986	8664.394	8693.986	8191.691	8437.776	8507.086	8437.776
50	7593.609	7685.113	7490.425	7720.157	7841.253	7720.157	7490.425	7685.113	7593.609	7685.113
55	6277.519	6394.332	6515.039	6804.734	6870.928	6804.734	6515.039	6394.332	6277.519	6394.332
60	4734.812	5170.523	5362.096	5711.366	5783.791	5711.366	5362.096	5170.523	4734.812	5170.523
65	3688.948	3694.788	3938.148	4642.140	4678.742	4642.140	3938.148	3694.788	3688.948	3694.788
70	2449.564	2569.726	2540.133	3481.800	3496.596	3481.800	2540.133	2569.726	2449.564	2569.726
75	1549.249	1592.703	1515.763	2194.678	2311.725	2194.678	1515.763	1592.703	1549.249	1592.703
80	647.454	695.542	742.073	1045.513	1259.398	1045.513	742.073	695.542	647.454	695.542
85	198.216	208.398	220.336	280.028	407.443	280.028	220.336	208.398	198.216	208.398
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	12296.7801	2296.7801	2296.7801	2296.7801	2296.7801	2296.7801	2296.7801
5	12238.0901	2253.6601	2294.9401	2253.6601	2238.0901	2244.3201	2245.1001
10	12054.3001	2110.3701	2158.6501	2110.3701	2054.3001	2078.0501	2089.3401
15	11781.3501	1867.0101	1932.8101	1867.0101	1781.3501	1821.8401	1810.5501
20	11406.7701	1536.8201	1600.2901	1536.8201	1406.7701	1487.7601	1496.7101
25	10960.1501	11117.8501	11195.3401	11117.8501	10960.1501	11070.3501	11067.6201
30	10446.9601	10606.6001	10692.2601	10606.6001	10446.9601	10563.7701	10552.8701
35	9827.849	9998.007	10108.9809	9998.007	9827.849	9972.307	9964.131
40	9274.156	9323.996	9434.579	9323.996	9274.156	9292.847	9281.165
45	8191.691	8693.986	8664.394	8693.986	8191.691	8437.776	8507.086
50	7490.425	7720.157	7841.253	7720.157	7490.425	7685.113	7593.609
55	6515.039	6804.734	6870.928	6804.734	6515.039	6394.332	6277.519
60	5362.096	5711.366	5783.791	5711.366	5362.096	5170.523	4734.812

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CANDELA TABULATION - (Cont.)

65	3938.148	4642.140	4678.742	4642.140	3938.148	3694.788	3688.948
70	2540.133	3481.800	3496.596	3481.800	2540.133	2569.726	2449.564
75	1515.763	2194.678	2311.725	2194.678	1515.763	1592.703	1549.249
80	742.073	1045.513	1259.398	1045.513	742.073	695.542	647.454
85	220.336	280.028	407.443	280.028	220.336	208.398	198.216
90	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
100	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
110	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
120	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
130	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
140	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
150	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
160	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
170	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
180	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	4506.4	N.A.	13.00
0-30	9610.33	N.A.	27.70
0-40	15847.05	N.A.	45.70
0-60	28255.13	N.A.	81.50
0-80	34278.39	N.A.	98.90
0-90	34649.82	N.A.	100.00
10-90	33485.51	N.A.	96.60
20-40	11340.65	N.A.	32.70
20-50	17893.95	N.A.	51.60
40-70	16489.2	N.A.	47.60
60-80	6023.27	N.A.	17.40
70-80	1942.16	N.A.	5.60
80-90	371.41	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	34649.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1164.3
10-20	3342.1
20-30	5103.93
30-40	6236.72
40-50	6553.29
50-60	5854.79
60-70	4081.11
70-80	1942.16
80-90	371.41
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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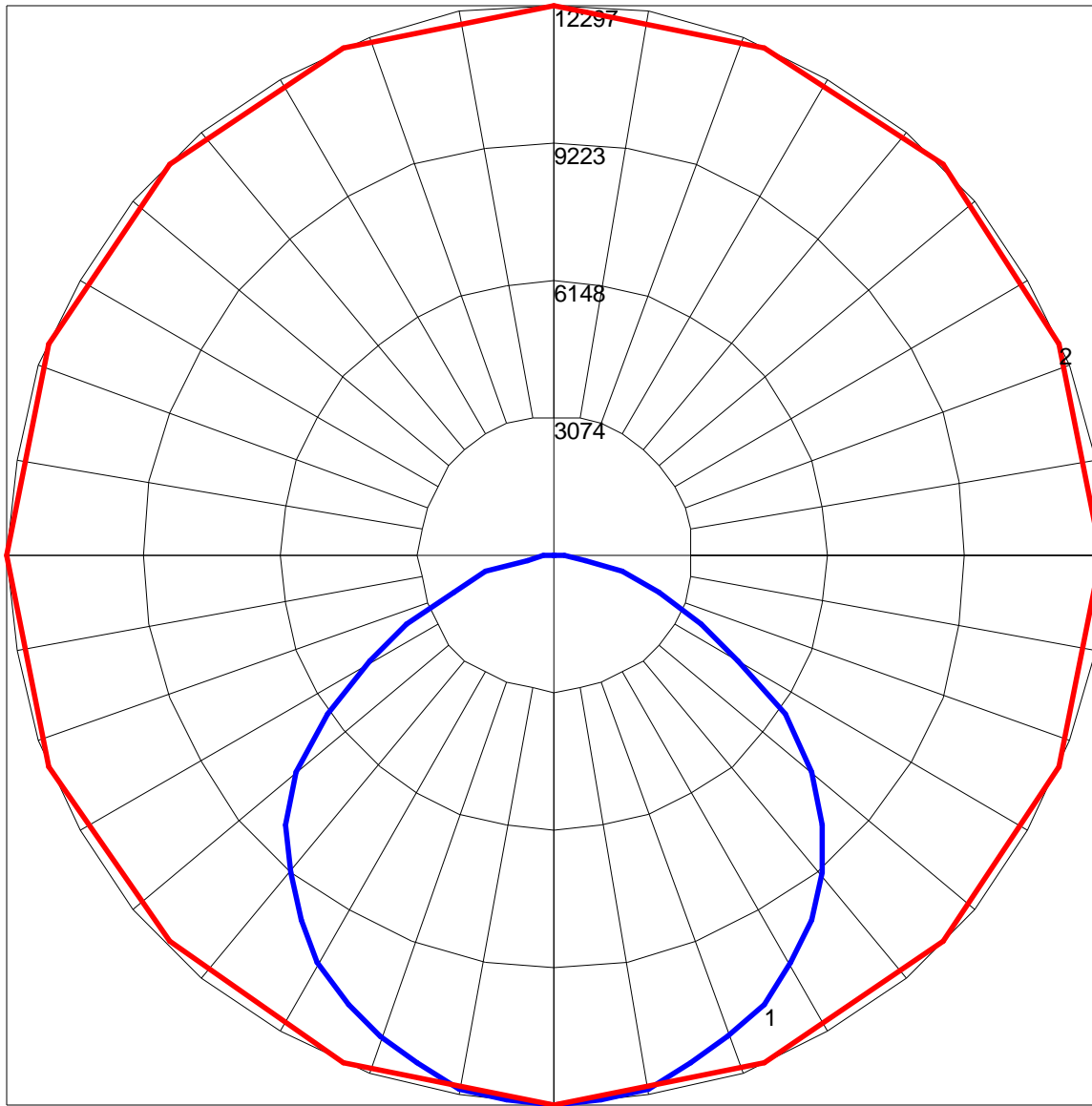
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	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	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	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

POLAR GRAPH



Maximum Candela = 12296.78 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.)