



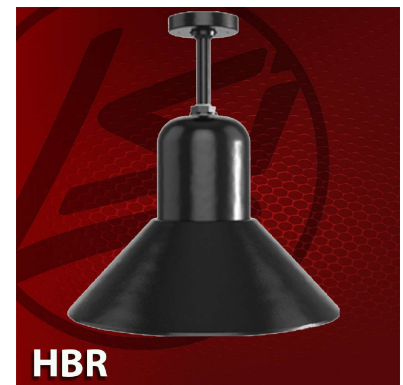
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBR-12L-35-GWT.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-11927  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUE DATE] 7/31/2020  
 [TEST DATE] 06/16/20  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] HBR-12L-35-GWT  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor  
 [SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.29 ft (Diameter)
Luminous Width (90-270)	0.29 ft (Diameter)
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	72384	71701	71246
55	66505	64822	65102
65	13330	13330	13710
75	9950	9950	9950
85	11080	11080	11080

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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>
0.0	479	479	479	479	479
2.5	480	479	480	479	480
5.0	479	479	479	479	479
7.5	479	480	479	479	479
10.0	479	479	479	479	479
12.5	478	478	477	477	477
15.0	477	477	476	476	476
17.5	475	475	474	474	474
20.0	473	472	472	471	471
22.5	471	470	469	468	468
25.0	469	468	467	466	467
27.5	463	463	460	459	459
30.0	441	441	440	439	440
32.5	410	410	410	410	411
35.0	390	390	389	389	390
37.5	373	373	371	370	371
40.0	356	355	353	352	354
42.5	337	337	334	332	333
45.0	318	318	315	312	313
47.5	299	299	295	291	294
50.0	278	278	274	270	273
52.5	258	258	253	249	253
55.0	237	236	231	228	232
57.5	201	202	197	195	199
60.0	113	115	117	116	119
62.5	49	49	50	50	51
65.0	35	35	35	35	36
67.5	25	25	25	25	25
70.0	22	22	22	22	22
72.5	19	19	19	19	19
75.0	16	17	16	16	16
77.5	13	13	13	13	13
80.0	10	10	10	10	10
82.5	8	8	8	8	8
85.0	6	6	6	6	6
87.5	4	4	4	3	3
90.0	0	1	1	1	1
92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	180.54	N.A.	15.80
0-30	394.62	N.A.	34.40
0-40	639.87	N.A.	55.80
0-60	1078.98	N.A.	94.10
0-80	1139.82	N.A.	99.40
0-90	1146.1	N.A.	100.00
10-90	1100.37	N.A.	96.00
20-40	459.33	N.A.	40.10
20-50	702.27	N.A.	61.30
40-70	483.01	N.A.	42.10
60-80	60.85	N.A.	5.30
70-80	16.95	N.A.	1.50
80-90	6.28	N.A.	0.50
90-110	0.12	N.A.	0.00
90-120	0.12	N.A.	0.00
90-130	0.12	N.A.	0.00
90-150	0.12	N.A.	0.00
90-180	0.12	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1146.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.74
10-20	134.80
20-30	214.08
30-40	245.25
40-50	242.94
50-60	196.18
60-70	43.90
70-80	16.95
80-90	6.28
90-100	0.12
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

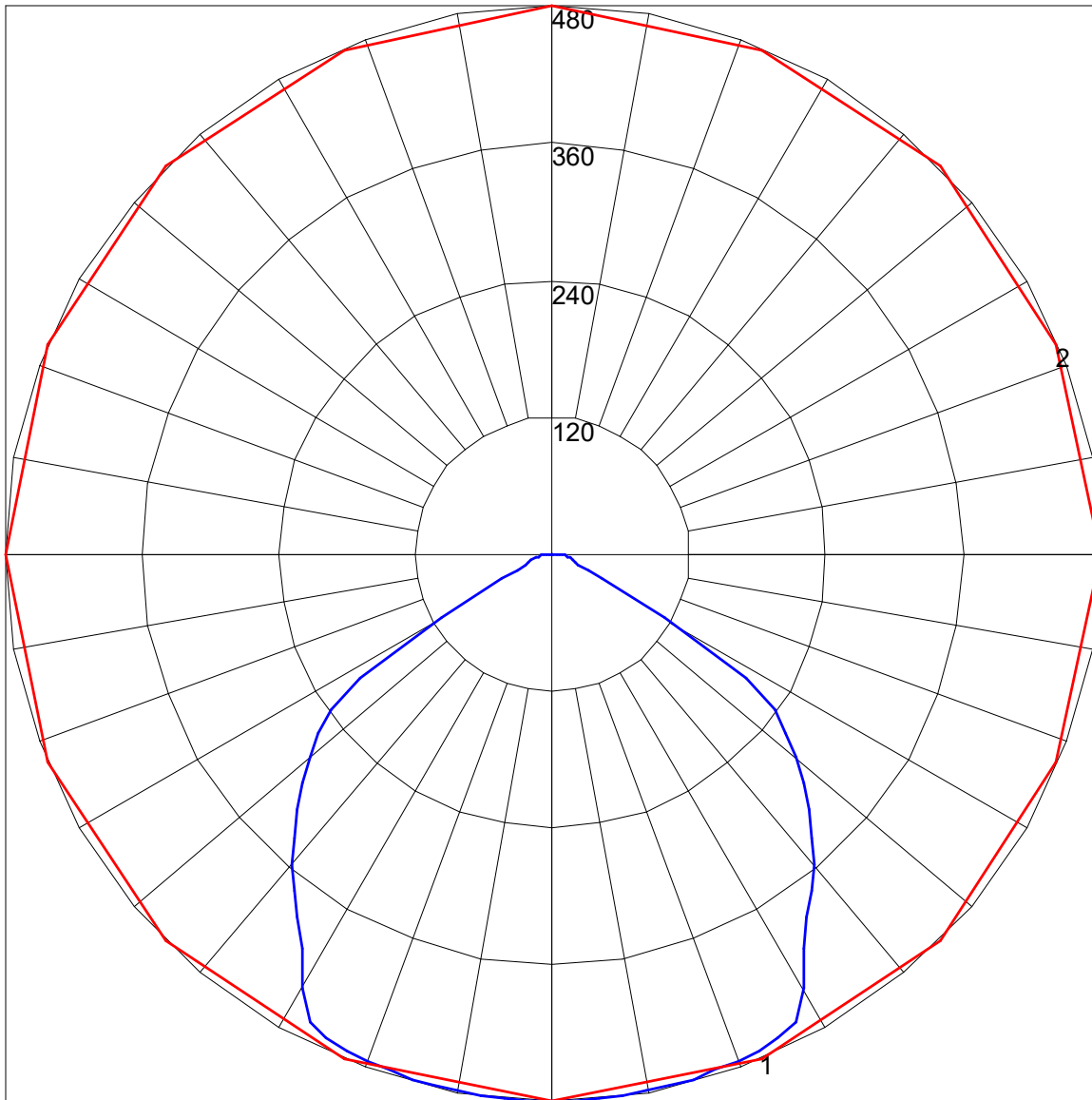
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

POLAR GRAPH



Maximum Candela = 480 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)