



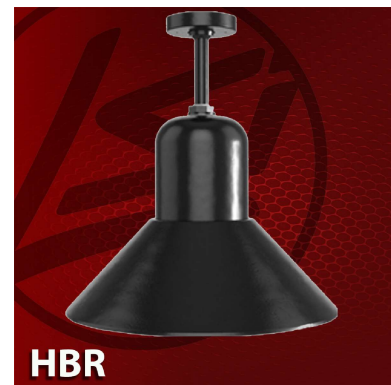
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBR-12L-40-GWT.IES**

**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  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] HBR-12L-40-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	1144
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	72156	71473	71018
55	66505	64822	65102
65	13330	13330	13710
75	9950	9950	9950
85	11080	11080	11080

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : HBR-12L-40-GWT.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	478	478	478	478	478
2.5	479	478	479	478	479
5.0	478	478	478	478	478
7.5	478	479	478	478	478
10.0	478	478	478	478	478
12.5	477	477	476	476	476
15.0	476	476	475	475	475
17.5	474	474	473	473	473
20.0	472	471	471	470	470
22.5	470	469	468	467	467
25.0	468	467	466	465	466
27.5	462	462	459	458	458
30.0	440	440	439	438	439
32.5	409	409	409	409	410
35.0	389	389	388	388	389
37.5	372	372	370	369	370
40.0	355	354	352	351	353
42.5	336	336	333	331	332
45.0	317	317	314	311	312
47.5	298	298	294	290	293
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : HBR-12L-40-GWT.IES

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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBR-12L-40-GWT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	180.16	N.A.	15.70
0-30	393.78	N.A.	34.40
0-40	638.40	N.A.	55.80
0-60	1076.84	N.A.	94.10
0-80	1137.68	N.A.	99.40
0-90	1143.96	N.A.	100.00
10-90	1098.32	N.A.	96.00
20-40	458.24	N.A.	40.10
20-50	700.51	N.A.	61.20
40-70	482.34	N.A.	42.20
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	1144.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.64
10-20	134.51
20-30	213.62
30-40	244.62
40-50	242.26
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

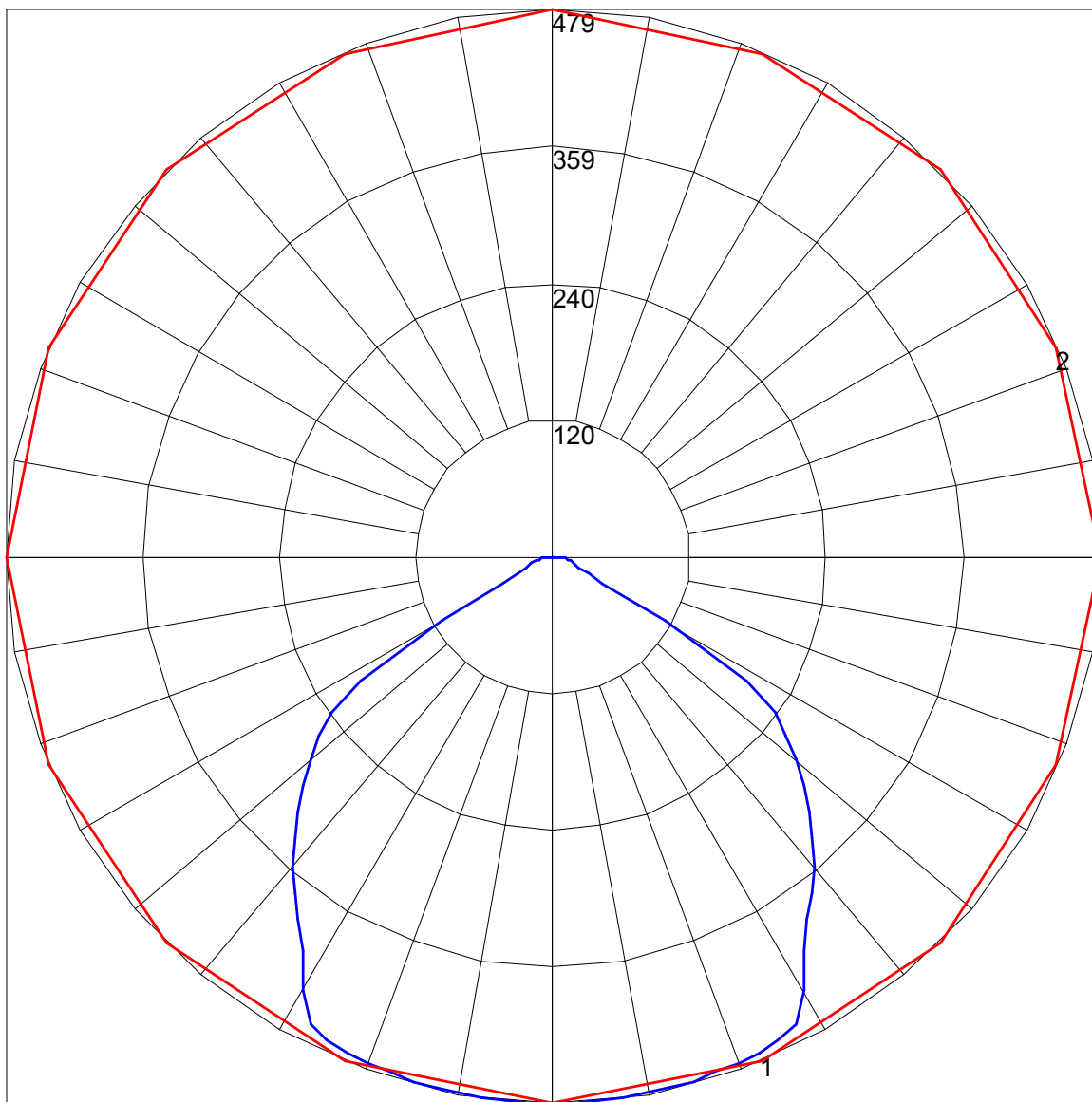
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBR-12L-40-GWT.IES**

**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 = 479 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.)