



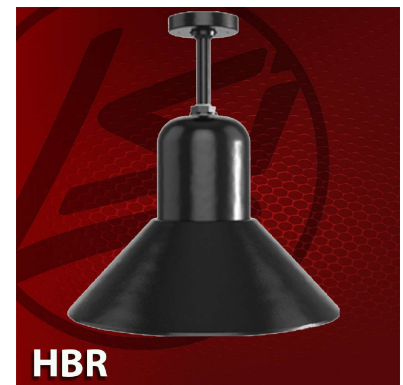
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBR-15L-30-GWT.IES**

**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-15L-30-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	1556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	10.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
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	98105	97194	96512
55	90357	88112	88393
65	18281	18281	18662
75	13681	13681	13681
85	14774	14774	14774

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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	650	650	650	650	650
2.5	651	650	651	650	651
5.0	650	650	650	650	650
7.5	650	651	650	650	650
10.0	650	650	650	650	650
12.5	648	648	647	647	647
15.0	647	647	646	646	646
17.5	644	644	643	643	643
20.0	642	640	640	639	639
22.5	639	637	636	635	635
25.0	636	635	633	632	633
27.5	628	628	624	623	623
30.0	598	598	597	595	597
32.5	556	556	556	556	557
35.0	529	529	527	527	529
37.5	506	506	503	502	503
40.0	483	481	478	477	480
42.5	457	457	453	450	451
45.0	431	431	427	423	424
47.5	405	405	400	394	398
50.0	378	378	372	367	371
52.5	351	351	344	338	344
55.0	322	321	314	310	315
57.5	273	275	268	265	270
60.0	154	156	159	158	162
62.5	67	67	68	68	69
65.0	48	48	48	48	49
67.5	34	34	34	34	34
70.0	30	30	30	30	30
72.5	26	26	26	26	26
75.0	22	23	22	22	22
77.5	18	18	18	18	18
80.0	14	14	14	14	14
82.5	11	11	11	11	11
85.0	8	8	8	8	8
87.5	5	5	5	4	4
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	244.91	N.A.	15.70
0-30	535.28	N.A.	34.40
0-40	867.81	N.A.	55.80
0-60	1463.84	N.A.	94.10
0-80	1546.94	N.A.	99.40
0-90	1555.39	N.A.	100.00
10-90	1493.33	N.A.	96.00
20-40	622.90	N.A.	40.00
20-50	952.25	N.A.	61.20
40-70	655.85	N.A.	42.20
60-80	83.10	N.A.	5.30
70-80	23.28	N.A.	1.50
80-90	8.46	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	1555.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	62.06
10-20	182.85
20-30	290.37
30-40	332.53
40-50	329.34
50-60	266.68
60-70	59.82
70-80	23.28
80-90	8.46
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

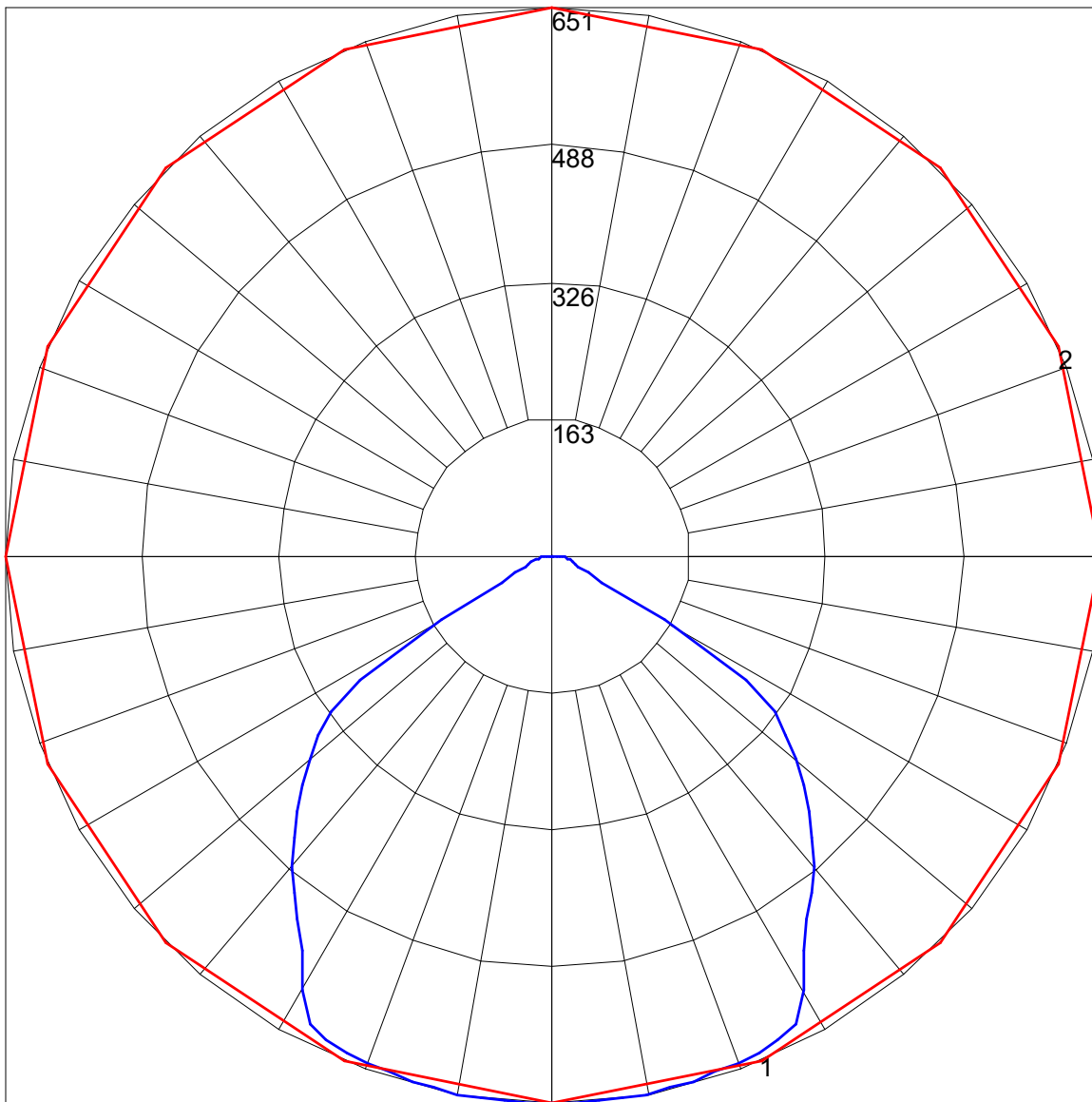
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	90	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	59	54	64	58	54	62	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	38	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 = 651 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.)