



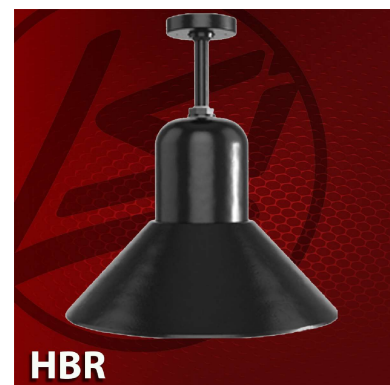
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBR-17L-35-GWT.IES**

**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  
 [MANUFACT] LSI INDUSTRIES, INC.  
 [LUMCAT] HBR-17L-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	1566
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	12.8
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	98788	97877	97194
55	90919	88674	89235
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	654	654	654	654	654
2.5	656	654	656	654	656
5.0	654	654	654	654	654
7.5	654	656	654	654	654
10.0	654	654	654	654	654
12.5	653	653	652	652	652
15.0	652	652	650	650	650
17.5	649	649	647	647	647
20.0	646	645	645	643	643
22.5	643	642	641	639	639
25.0	641	639	638	637	638
27.5	632	632	628	627	627
30.0	602	602	601	600	601
32.5	560	560	560	560	561
35.0	532	532	531	531	532
37.5	509	509	506	505	506
40.0	486	485	482	480	483
42.5	460	460	456	453	454
45.0	434	434	430	426	427
47.5	408	408	402	397	401
50.0	381	381	375	370	374
52.5	353	353	346	341	346
55.0	324	323	316	312	318
57.5	275	277	270	267	272
60.0	155	157	160	159	163
62.5	67	67	68	68	70
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	246.58	N.A.	15.70
0-30	538.98	N.A.	34.40
0-40	873.75	N.A.	55.80
0-60	1473.97	N.A.	94.10
0-80	1557.22	N.A.	99.50
0-90	1565.67	N.A.	100.00
10-90	1503.21	N.A.	96.00
20-40	627.18	N.A.	40.10
20-50	958.84	N.A.	61.20
40-70	660.18	N.A.	42.20
60-80	83.25	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	1565.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	62.46
10-20	184.12
20-30	292.40
30-40	334.77
40-50	331.66
50-60	268.55
60-70	59.97
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

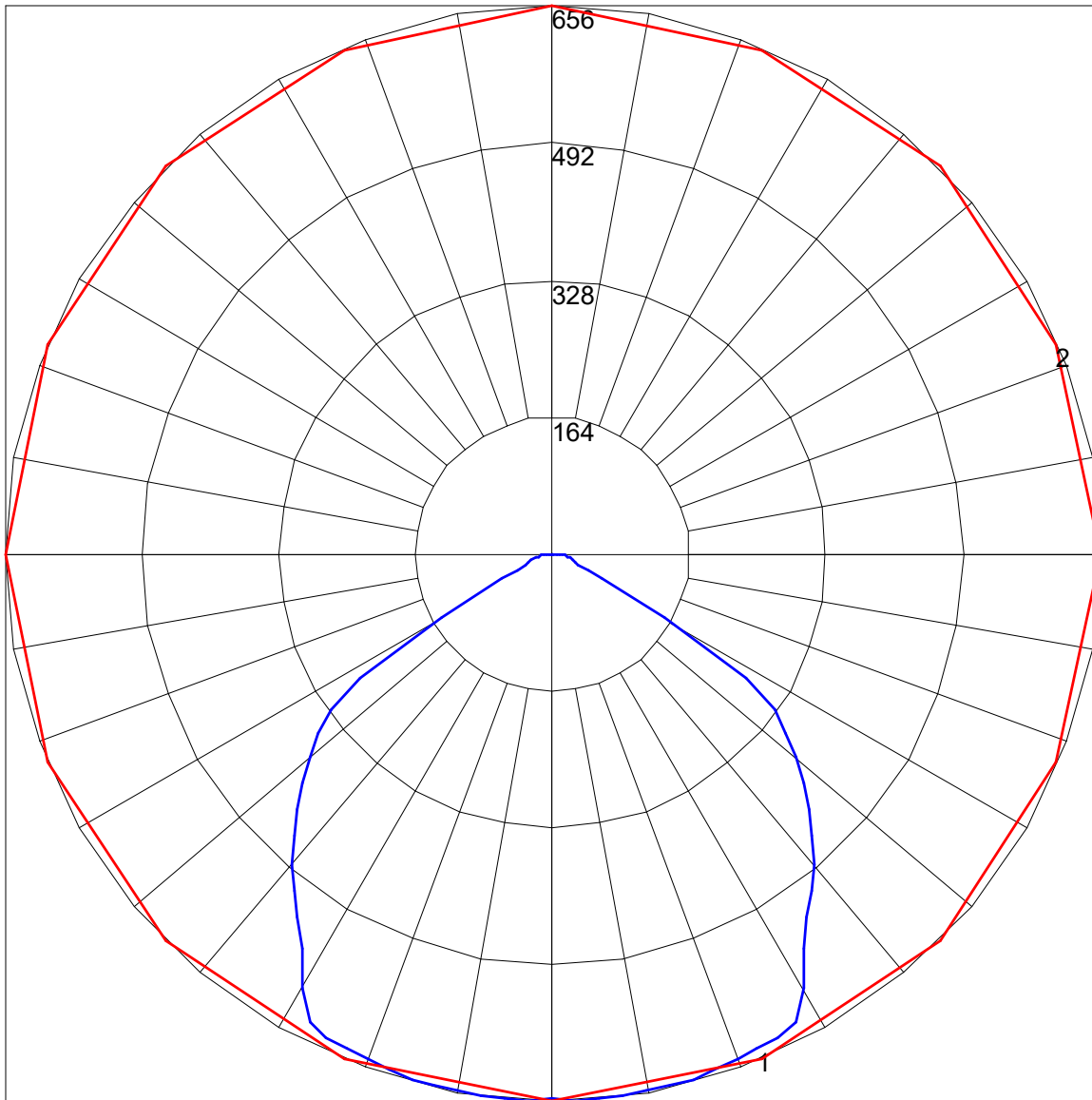
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 656 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.)