



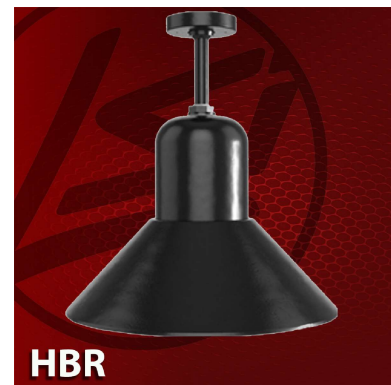
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBR-17L-30-GWT.IES**

**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-17L-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	1758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	12.8
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	110852	109941	109031
55	102143	99618	100179
65	20566	20566	20947
75	15547	15547	15547
85	16621	16621	16621

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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	735	735	735	735	735
2.5	736	735	736	735	736
5.0	735	735	735	735	735
7.5	735	736	735	735	735
10.0	735	735	735	735	735
12.5	733	733	731	731	731
15.0	731	731	730	730	730
17.5	728	728	727	727	727
20.0	725	724	724	722	722
22.5	722	721	719	718	718
25.0	719	718	716	715	716
27.5	710	710	705	704	704
30.0	676	676	675	673	675
32.5	629	629	629	629	630
35.0	598	598	596	596	598
37.5	572	572	569	567	569
40.0	546	544	541	539	542
42.5	516	516	512	509	510
45.0	487	487	483	478	479
47.5	458	458	452	446	450
50.0	427	427	421	415	420
52.5	396	396	389	383	389
55.0	364	363	355	350	357
57.5	309	310	303	300	306
60.0	174	177	180	178	183
62.5	75	75	77	77	78
65.0	54	54	54	54	55
67.5	38	38	38	38	38
70.0	34	34	34	34	34
72.5	29	29	29	29	29
75.0	25	26	25	25	25
77.5	20	20	20	20	20
80.0	15	15	15	15	15
82.5	12	12	12	12	12
85.0	9	9	9	9	9
87.5	6	6	6	5	5
90.0	0	2	2	2	2
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	276.86	N.A.	15.70
0-30	605.16	N.A.	34.40
0-40	981.18	N.A.	55.80
0-60	1655.00	N.A.	94.10
0-80	1748.46	N.A.	99.40
0-90	1757.99	N.A.	100.00
10-90	1687.81	N.A.	96.00
20-40	704.32	N.A.	40.10
20-50	1076.64	N.A.	61.20
40-70	741.23	N.A.	42.20
60-80	93.46	N.A.	5.30
70-80	26.05	N.A.	1.50
80-90	9.53	N.A.	0.50
90-110	0.24	N.A.	0.00
90-120	0.24	N.A.	0.00
90-130	0.24	N.A.	0.00
90-150	0.24	N.A.	0.00
90-180	0.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1758.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.17
10-20	206.69
20-30	328.30
30-40	376.02
40-50	372.32
50-60	301.50
60-70	67.41
70-80	26.05
80-90	9.53
90-100	0.24
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

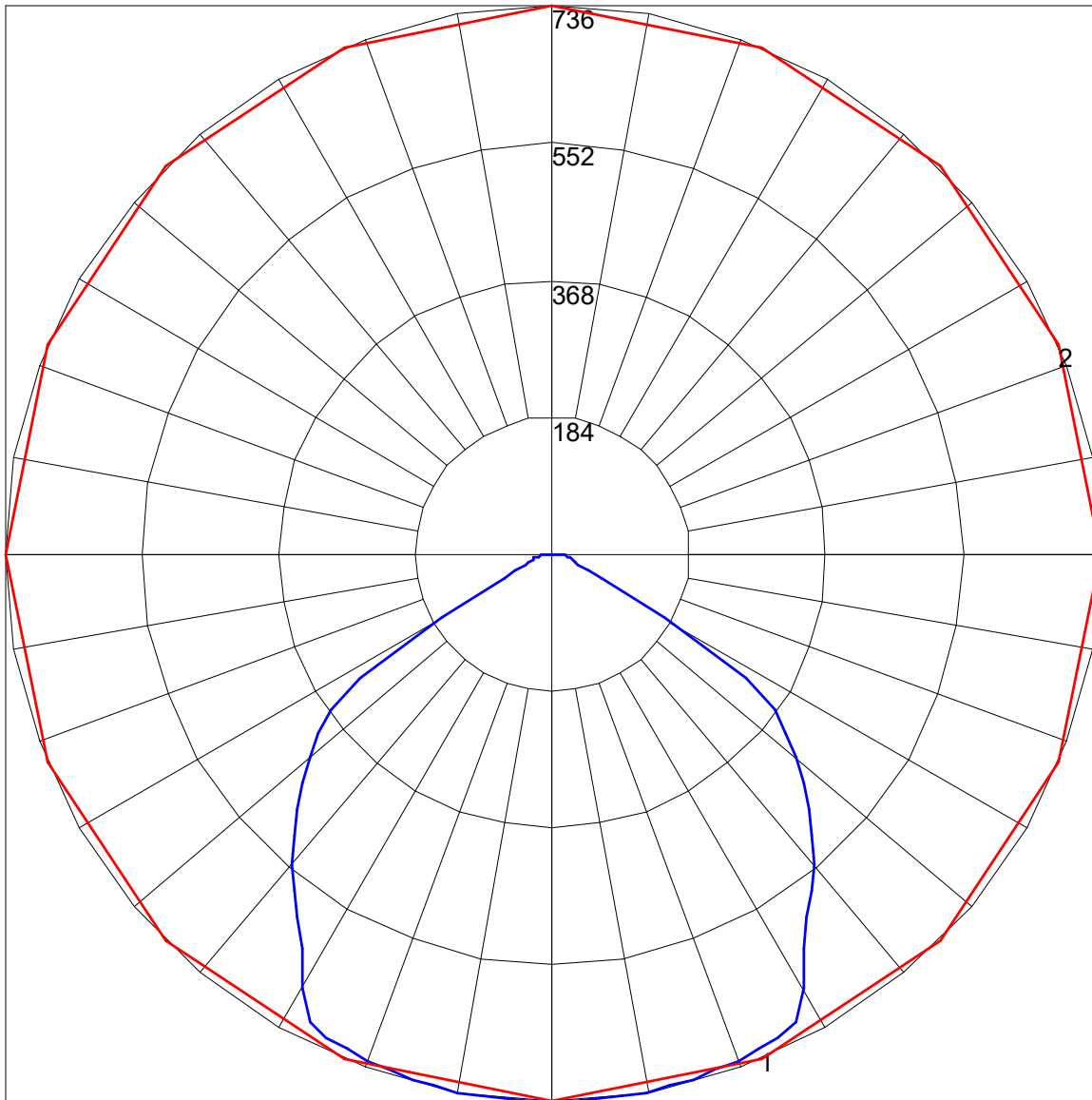
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 736 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.)