



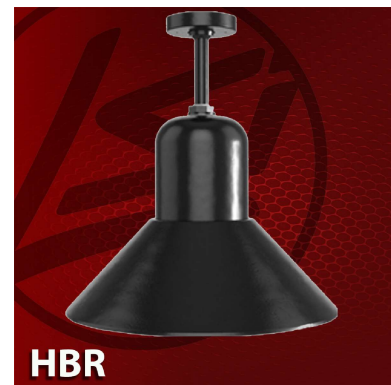
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBR-15L-35-GWT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11927
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 7/31/2020
[TESTDATE] 06/16/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] HBR-15L-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	1384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	10.9
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	87407	86496	85813
55	80536	78291	78852
65	15996	15996	16757
75	11816	11816	11816
85	12927	12927	12927

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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	578	578	578	578	578
2.5	579	578	579	578	579
5.0	578	578	578	578	578
7.5	578	579	578	578	578
10.0	578	578	578	578	578
12.5	577	577	576	576	576
15.0	576	576	575	575	575
17.5	573	573	572	572	572
20.0	571	570	570	569	569
22.5	569	567	566	565	565
25.0	566	565	564	563	564
27.5	559	559	555	554	554
30.0	532	532	531	530	531
32.5	495	495	495	495	496
35.0	471	471	469	469	471
37.5	450	450	448	446	448
40.0	429	428	426	425	427
42.5	406	406	403	400	402
45.0	384	384	380	376	377
47.5	361	361	356	351	354
50.0	336	336	331	327	330
52.5	312	312	306	301	306
55.0	287	286	279	276	281
57.5	243	244	238	236	241
60.0	137	139	142	140	144
62.5	59	59	60	60	62
65.0	42	42	42	42	44
67.5	30	30	30	30	30
70.0	27	27	27	27	27
72.5	23	23	23	23	23
75.0	19	21	19	19	19
77.5	16	16	16	16	16
80.0	12	12	12	12	12
82.5	10	10	10	10	10
85.0	7	7	7	7	7
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	217.92	N.A.	15.70
0-30	476.36	N.A.	34.40
0-40	772.33	N.A.	55.80
0-60	1302.7	N.A.	94.10
0-80	1376.24	N.A.	99.40
0-90	1383.88	N.A.	100.00
10-90	1328.69	N.A.	96.00
20-40	554.40	N.A.	40.10
20-50	847.50	N.A.	61.20
40-70	583.34	N.A.	42.10
60-80	73.54	N.A.	5.30
70-80	20.57	N.A.	1.50
80-90	7.64	N.A.	0.60
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	1384.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.19
10-20	162.73
20-30	258.44
30-40	295.96
40-50	293.10
50-60	237.28
60-70	52.96
70-80	20.57
80-90	7.64
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

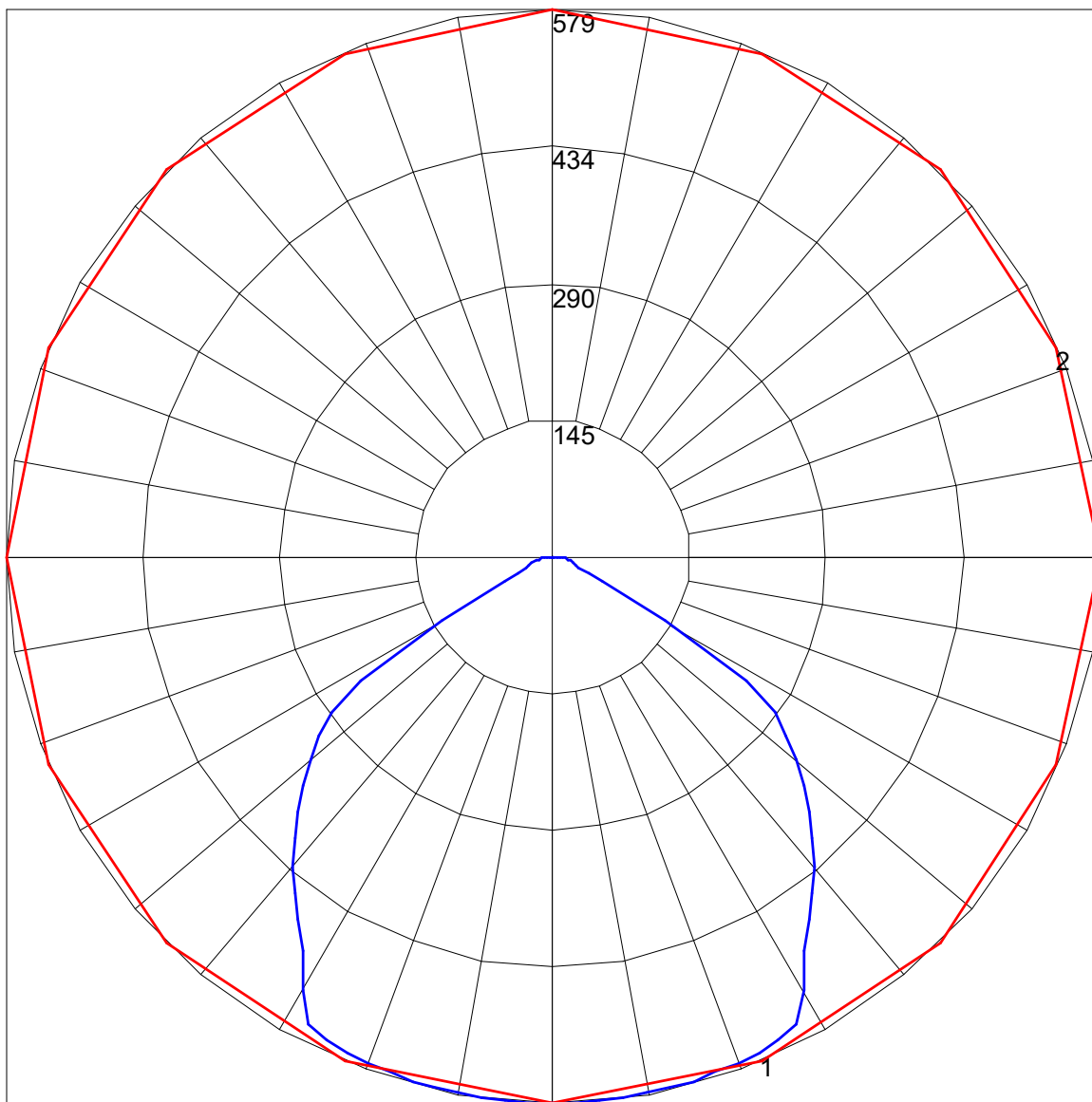
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 579 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.)