



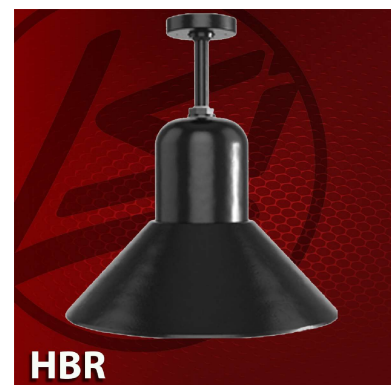
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBR-15L-27-GWT.IES

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-27-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	1396
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	88090	87179	86724
55	81097	79133	79413
65	16376	16376	16757
75	12437	12437	12437
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	583	583	583	583	583
2.5	585	583	585	583	585
5.0	583	583	583	583	583
7.5	583	585	583	583	583
10.0	583	583	583	583	583
12.5	582	582	581	581	581
15.0	581	581	580	580	580
17.5	578	578	577	577	577
20.0	576	575	575	574	574
22.5	574	572	571	570	570
25.0	571	570	569	567	569
27.5	564	564	560	559	559
30.0	537	537	536	534	536
32.5	499	499	499	499	500
35.0	475	475	473	473	475
37.5	454	454	452	450	452
40.0	433	432	430	428	431
42.5	410	410	406	404	405
45.0	387	387	383	380	381
47.5	364	364	359	354	358
50.0	339	339	334	329	333
52.5	315	315	309	304	309
55.0	289	288	282	278	283
57.5	245	246	240	238	243
60.0	138	140	143	142	145
62.5	60	60	61	61	62
65.0	43	43	43	43	44
67.5	31	31	31	31	31
70.0	27	27	27	27	27
72.5	23	23	23	23	23
75.0	20	21	20	20	20
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	219.83	N.A.	15.70
0-30	480.54	N.A.	34.40
0-40	779.05	N.A.	55.80
0-60	1314.07	N.A.	94.10
0-80	1388.64	N.A.	99.40
0-90	1396.28	N.A.	100.00
10-90	1340.6	N.A.	96.00
20-40	559.22	N.A.	40.00
20-50	854.89	N.A.	61.20
40-70	588.82	N.A.	42.20
60-80	74.57	N.A.	5.30
70-80	20.77	N.A.	1.50
80-90	7.64	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	1396.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.68
10-20	164.15
20-30	260.71
30-40	298.51
40-50	295.68
50-60	239.34
60-70	53.80
70-80	20.77
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

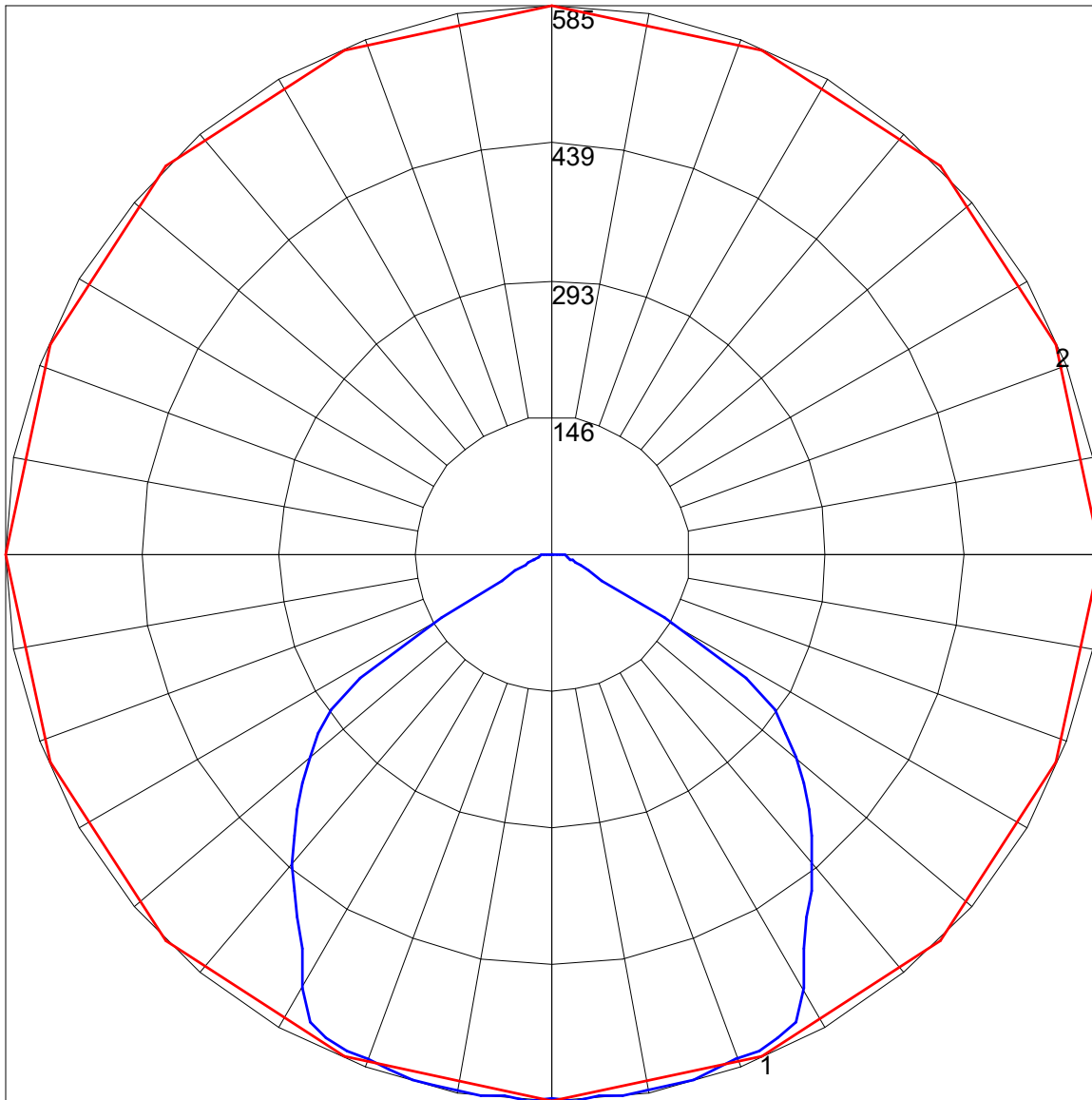
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 585 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.)