



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBK 12 LW UV 850.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2101028E-A  
[ISSUEDATE] 2021-1-20 16:01  
[MANUFAC] LumenFocus, LLC  
[LUMCAT] HBK 12 LW UV 850  
[LUMINAIRE] 100W Round High Bay - Gen 2 5000K  
[LAMPCAT]  
[LAMP]  
[ \_VOLTAGE] 120.0 V  
[ \_CURRENT] 0.851 A  
[ \_POWERFACTOR] 0.995  
[ \_THD] 7.54  
[TESTLAB] Belling Test Laboratory Co., LTD  
[ \_TESTINST] GPM-3000  
[ \_TESTDIST] 14.540 m [K=1.0000]  
[ \_TESTTEMPERATURE] 25.9 °C  
[ \_TESTHUMIDITY]  
[ \_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]

### CHARACTERISTICS

Lumens Per Lamp	15795.8 (1 lamp)
Total Lamp Lumens	15795.8
Luminaire Lumens	15796
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	103.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	69183	76023	77721
55	39615	42957	43513
65	22715	24638	24574
75	14687	16055	15030
85	4597	5784	4685

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3117.95	19.70	19.70
0-30	6713.31	42.50	42.50
0-40	10610.47	67.20	67.20
0-60	14762.74	93.50	93.50
0-80	15726.25	99.60	99.60
0-90	15767.12	99.80	99.80
10-90	14975.52	94.80	94.80
20-40	7492.52	47.40	47.40
20-50	10186.66	64.50	64.50
40-70	4836.58	30.60	30.60
60-80	963.51	6.10	6.10
70-80	279.21	1.80	1.80
80-90	40.86	0.30	0.30
90-110	0.35	0.00	0.00
90-120	0.54	0.00	0.00
90-130	1.64	0.00	0.00
90-150	13.67	0.10	0.10
90-180	28.71	0.20	0.20
110-180	28.36	0.20	0.20
0-180	15795.82	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	791.60
10-20	2326.35
20-30	3595.35
30-40	3897.16
40-50	2694.14
50-60	1458.13
60-70	684.30
70-80	279.21
80-90	40.86
90-100	0.24
100-110	0.11
110-120	0.19
120-130	1.10
130-140	4.37
140-150	7.67
150-160	7.63
160-170	5.48
170-180	1.93

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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56
6	78	67	59	54	76	66	59	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45
8	68	56	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38
10	60	49	41	37	59	48	41	37	47	41	37	46	40	36	45	40	36	35

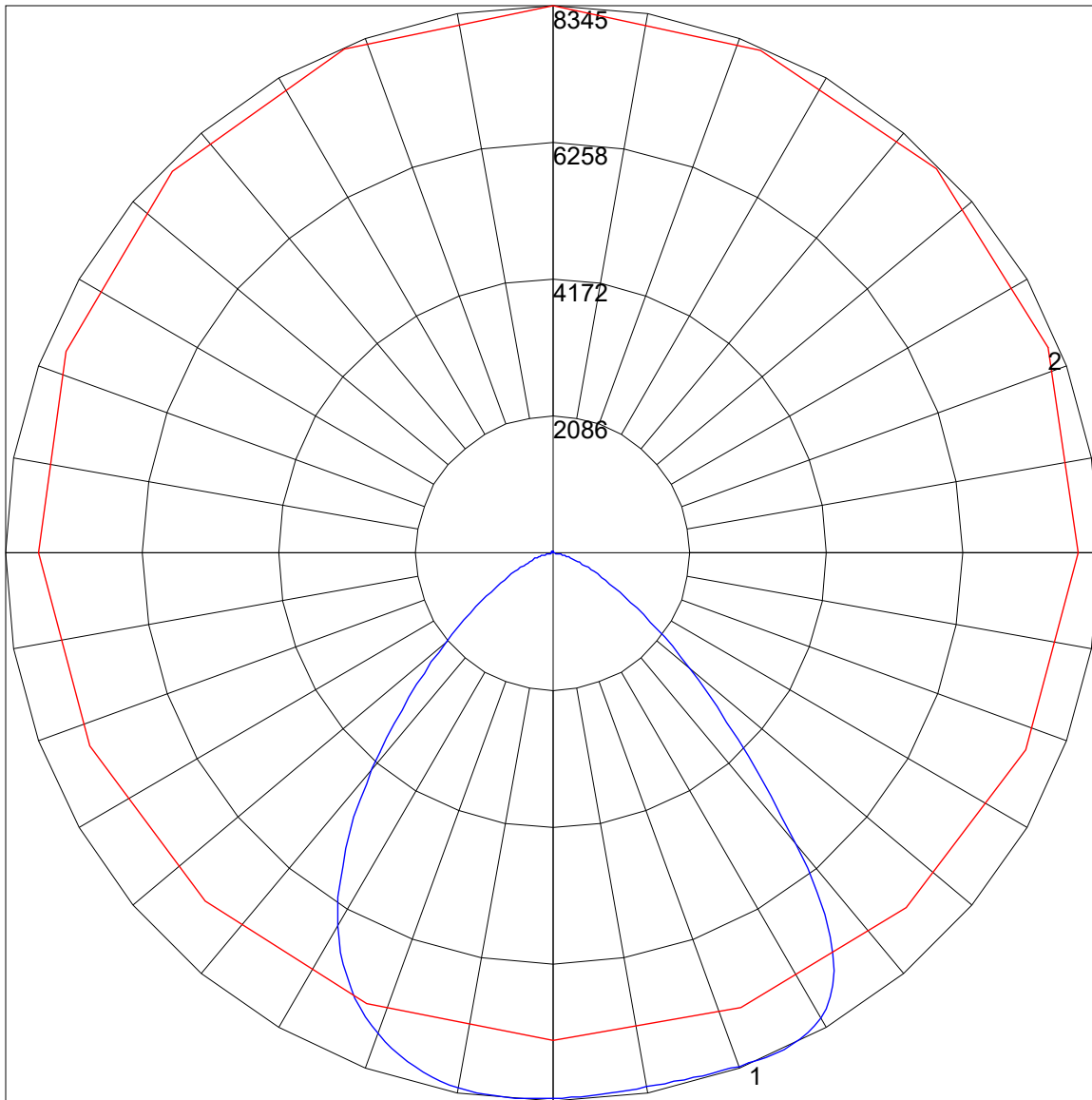
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**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.7	23.1	22.1	23.4	23.7	22.3	23.6	22.7	23.9	24.3
	3H	22.4	23.6	22.8	23.9	24.3	23.0	24.2	23.4	24.5	24.9
	4H	22.6	23.7	23.0	24.1	24.5	23.2	24.3	23.6	24.7	25.1
	6H	22.7	23.8	23.2	24.1	24.5	23.3	24.3	23.7	24.7	25.1
	8H	22.8	23.7	23.2	24.1	24.5	23.3	24.2	23.7	24.6	25.0
	12H	22.7	23.6	23.2	24.0	24.5	23.3	24.2	23.7	24.6	25.0
4H	2H	21.9	23.0	22.3	23.4	23.8	22.5	23.6	22.9	23.9	24.3
	3H	22.8	23.7	23.2	24.1	24.5	23.4	24.3	23.8	24.7	25.1
	4H	23.1	23.9	23.5	24.3	24.8	23.7	24.5	24.1	24.9	25.3
	6H	23.3	24.0	23.7	24.4	24.9	23.8	24.5	24.3	25.0	25.4
	8H	23.3	23.9	23.8	24.4	24.9	23.8	24.5	24.3	24.9	25.4
	12H	23.3	23.8	23.8	24.3	24.8	23.8	24.4	24.3	24.8	25.3
8H	4H	23.2	23.8	23.6	24.3	24.7	23.7	24.4	24.2	24.8	25.3
	6H	23.4	23.9	23.9	24.4	24.9	23.9	24.4	24.4	24.9	25.4
	8H	23.4	23.9	23.9	24.4	24.9	23.9	24.4	24.4	24.9	25.4
	12H	23.4	23.8	23.9	24.3	24.9	23.9	24.3	24.4	24.8	25.4
12H	4H	23.1	23.7	23.6	24.2	24.7	23.7	24.2	24.2	24.7	25.2
	6H	23.3	23.8	23.9	24.3	24.8	23.9	24.3	24.4	24.8	25.4
	8H	23.4	23.8	23.9	24.3	24.9	23.9	24.3	24.4	24.8	25.4

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 8344.61 Located At Horizontal Angle = 90, Vertical Angle = 24  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (24) (Through Max. Cd.)