



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBK 14 VH UV 850.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2106027E-A  
[ISSUE DATE] 2021-6-22 16:18  
[MANUFAC] LumenFocus, LLC  
[LUMCAT] HBK 14 VH UV 850  
[LUMINAIRE] 240W Round High Bay - Gen 2 5000K  
[LAMPCAT]  
[LAMP]  
[ \_VOLTAGE] 120.0 V  
[ \_CURRENT] 1.985 A  
[ \_POWERFACTOR] 0.999  
[ \_THD] 3.51  
[TESTLAB] Belling Test Laboratory Co., LTD  
[ \_TESTINST] GPM-3000  
[ \_TESTDIST] 14.140 m [K=1.0000]  
[ \_TESTTEMPERATURE] 25.6 °C  
[ \_TESTHUMIDITY]  
[ \_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]

### CHARACTERISTICS

Lumens Per Lamp	36235.38 (1 lamp)
Total Lamp Lumens	36235.38
Luminaire Lumens	36235
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	238.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.29 m (Diameter)
Luminous Width (90-270)	0.29 m (Diameter)
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	146769	148266	149350
55	82616	82679	83875
65	48738	48724	49892
75	30915	30552	30510
85	12166	9877	9108

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7446.9	20.60	20.60
0-30	16019.86	44.20	44.20
0-40	24857.4	68.60	68.60
0-60	33895.92	93.50	93.50
0-80	36030.29	99.40	99.40
0-90	36133.74	99.70	99.70
10-90	34261.43	94.60	94.60
20-40	17410.5	48.00	48.00
20-50	23320.55	64.40	64.40
40-70	10555.2	29.10	29.10
60-80	2134.37	5.90	5.90
70-80	617.70	1.70	1.70
80-90	103.45	0.30	0.30
90-110	13.22	0.00	0.00
90-120	20.59	0.10	0.10
90-130	30.91	0.10	0.10
90-150	65.34	0.20	0.20
90-180	101.67	0.30	0.30
110-180	88.45	0.20	0.20
0-180	36235.41	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1872.31
10-20	5574.59
20-30	8572.96
30-40	8837.54
40-50	5910.06
50-60	3128.47
60-70	1516.67
70-80	617.70
80-90	103.45
90-100	6.57
100-110	6.65
110-120	7.37
120-130	10.31
130-140	15.31
140-150	19.12
150-160	18.21
160-170	13.37
170-180	4.75

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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	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	77	95	87	81	76	84	79	75	81	77	74	79	75	72	71
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	68	63	59	67	62	58	57
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	67	56	49	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	63	52	45	41	51	45	41	50	45	40	49	44	40	39
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	35

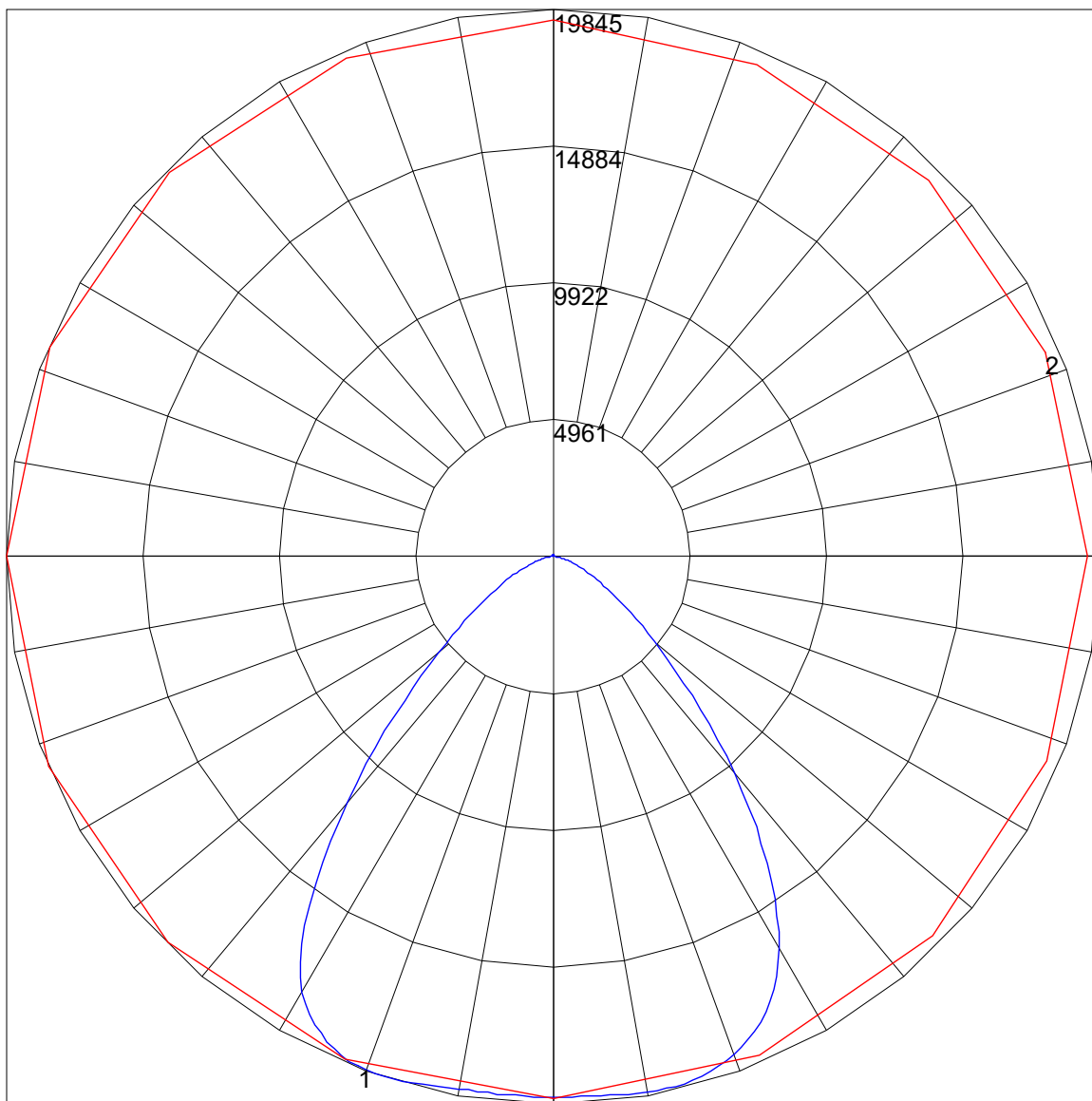
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**UGR TABLE - CORRECTED**

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	23.8	25.1	24.1	25.4	25.7	23.9	25.2	24.3	25.5	25.8
	3H	24.5	25.7	24.9	26.0	26.4	24.7	25.8	25.0	26.2	26.5
	4H	24.8	25.8	25.2	26.2	26.6	24.9	26.0	25.3	26.3	26.7
	6H	24.9	25.9	25.3	26.2	26.6	25.0	26.0	25.4	26.3	26.7
	8H	24.9	25.8	25.3	26.2	26.6	24.9	25.9	25.4	26.3	26.7
	12H	24.9	25.7	25.3	26.1	26.6	24.9	25.8	25.4	26.2	26.6
4H	2H	24.0	25.1	24.4	25.5	25.8	24.1	25.2	24.5	25.6	26.0
	3H	25.0	25.8	25.4	26.2	26.6	25.1	26.0	25.5	26.4	26.8
	4H	25.3	26.0	25.7	26.5	26.9	25.4	26.1	25.8	26.6	27.0
	6H	25.4	26.1	25.9	26.6	27.0	25.5	26.2	26.0	26.6	27.1
	8H	25.4	26.1	25.9	26.5	27.0	25.5	26.1	26.0	26.6	27.1
	12H	25.4	26.0	25.9	26.5	26.9	25.5	26.0	26.0	26.5	27.0
8H	4H	25.3	25.9	25.8	26.4	26.9	25.4	26.0	25.9	26.5	27.0
	6H	25.5	26.0	26.0	26.5	27.0	25.6	26.1	26.1	26.6	27.1
	8H	25.6	26.0	26.1	26.5	27.0	25.6	26.1	26.2	26.6	27.1
	12H	25.5	26.0	26.1	26.5	27.0	25.6	26.0	26.1	26.5	27.1
12H	4H	25.3	25.8	25.8	26.3	26.8	25.4	25.9	25.9	26.4	26.9
	6H	25.5	26.0	26.0	26.4	27.0	25.6	26.1	26.1	26.5	27.1
	8H	25.5	26.0	26.1	26.5	27.0	25.6	26.0	26.1	26.5	27.1

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 19844.747 Located At Horizontal Angle = 202.5, Vertical Angle = 19  
# 1 - Vertical Plane Through Horizontal Angles (202.5 - 22.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (19) (Through Max. Cd.)