



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBK 14 HI UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2101028E-C  
[ISSUEDATE] 2021-1-20 14:05  
[MANUFAC] LumenFocus, LLC  
[LUMCAT] HBK 14 HI UV 840  
[LUMINAIRE] 200W Round High Bay - Gen 2 4000K  
[LAMPCAT]  
[LAMP]  
[\_VOLTAGE] 277.0 V  
[\_CURRENT] 0.738 A  
[\_POWERFACTOR] 0.949  
[TESTLAB] Belling Test Laboratory Co., LTD  
[\_TESTINST] GPM-3000  
[\_TESTDIST] 14.540 m [K=1.0000]  
[\_TESTTEMPERATURE] 25.8 °C  
[\_TESTHUMIDITY]  
[\_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]

### CHARACTERISTICS

Lumens Per Lamp	31675 (1 lamp)
Total Lamp Lumens	31675
Luminaire Lumens	31675
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	201.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.10 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	110301	113669	112085
55	62060	63403	61518
65	36744	37704	36305
75	23002	23479	22323
85	9344	10735	9603

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6359.47	20.10	20.10
0-30	13743.37	43.40	43.40
0-40	21513.00	67.90	67.90
0-60	29613.64	93.50	93.50
0-80	31514.49	99.50	99.50
0-90	31609.29	99.80	99.80
10-90	30010.7	94.70	94.70
20-40	15153.53	47.80	47.80
20-50	20458.05	64.60	64.60
40-70	9452.24	29.80	29.80
60-80	1900.84	6.00	6.00
70-80	549.24	1.70	1.70
80-90	94.81	0.30	0.30
90-110	1.81	0.00	0.00
90-120	3.42	0.00	0.00
90-130	8.98	0.00	0.00
90-150	36.45	0.10	0.10
90-180	65.66	0.20	0.20
110-180	63.85	0.20	0.20
0-180	31674.95	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1598.6
10-20	4760.88
20-30	7383.9
30-40	7769.64
40-50	5304.52
50-60	2796.12
60-70	1351.61
70-80	549.24
80-90	94.81
90-100	0.90
100-110	0.91
110-120	1.61
120-130	5.56
130-140	11.95
140-150	15.52
150-160	14.84
160-170	10.53
170-180	3.84

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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	84	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35

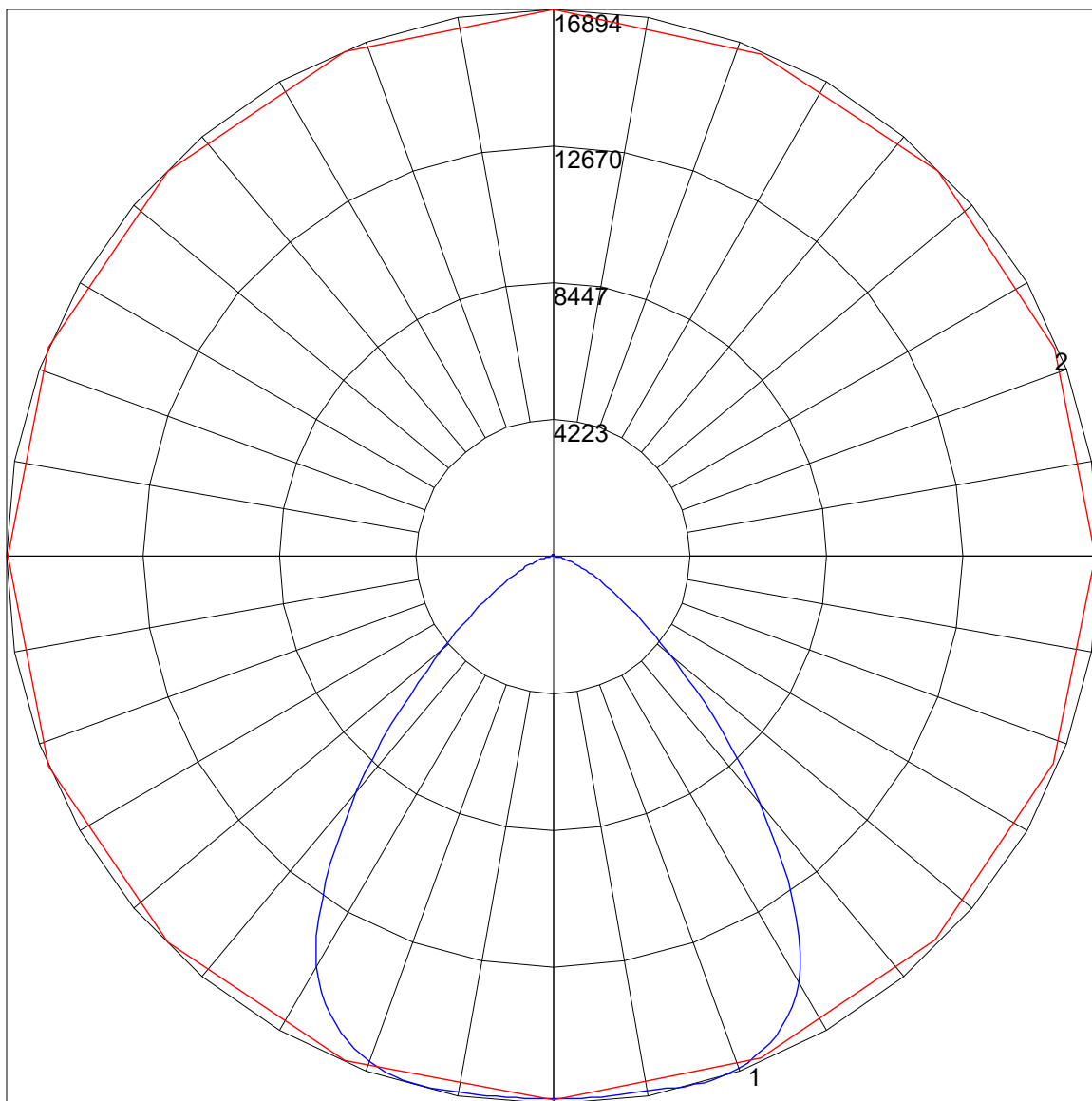
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**UGR TABLE - CORRECTED**

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	23.0	24.4	23.4	24.7	25.0	23.0	24.4	23.4	24.7	25.0
	3H	23.8	25.0	24.2	25.3	25.7	23.8	25.0	24.2	25.3	25.7
	4H	24.0	25.1	24.4	25.5	25.9	24.0	25.1	24.4	25.5	25.8
	6H	24.2	25.2	24.6	25.5	25.9	24.1	25.1	24.5	25.5	25.9
	8H	24.2	25.1	24.6	25.5	25.9	24.1	25.1	24.6	25.5	25.9
	12H	24.2	25.1	24.6	25.5	25.9	24.1	25.0	24.5	25.4	25.8
4H	2H	23.3	24.4	23.7	24.7	25.1	23.3	24.4	23.7	24.7	25.1
	3H	24.2	25.1	24.7	25.5	25.9	24.2	25.1	24.6	25.5	25.9
	4H	24.5	25.3	25.0	25.8	26.2	24.5	25.3	24.9	25.7	26.2
	6H	24.7	25.4	25.2	25.9	26.3	24.7	25.4	25.1	25.8	26.3
	8H	24.8	25.4	25.2	25.8	26.3	24.7	25.3	25.2	25.8	26.2
	12H	24.7	25.3	25.2	25.8	26.3	24.7	25.2	25.2	25.7	26.2
8H	4H	24.6	25.2	25.1	25.7	26.2	24.5	25.2	25.0	25.6	26.1
	6H	24.8	25.4	25.3	25.9	26.3	24.8	25.3	25.3	25.8	26.3
	8H	24.9	25.4	25.4	25.9	26.4	24.8	25.3	25.3	25.8	26.3
	12H	24.9	25.3	25.4	25.8	26.4	24.8	25.2	25.3	25.7	26.3
12H	4H	24.6	25.1	25.0	25.6	26.1	24.5	25.1	25.0	25.6	26.0
	6H	24.8	25.3	25.4	25.8	26.3	24.8	25.2	25.3	25.7	26.2
	8H	24.9	25.3	25.4	25.8	26.4	24.8	25.2	25.3	25.7	26.3

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 16893.711 Located At Horizontal Angle = 90, Vertical Angle = 17  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (17) (Through Max. Cd.)