



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBK 12 MD UV 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BLC2101028E-B
[ISSUEDATE] 2021-1-20 16:35
[MANUFAC] LumenFocus, LLC
[LUMCAT] HBK 12 MD UV 840
[LUMINAIRE] 150W Round High Bay - Gen 2 4000K
[LAMPCAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 1.261 A
[_POWERFACTOR] 0.999
[_THD] 3.43
[TESTLAB] Belling Test Laboratory Co., LTD
[_TESTINST] GPM-3000
[_TESTDIST] 14.540 m [K=1.0000]
[_TESTTEMPERATURE] 25.0 'C
[_TESTHUMIDITY]
[_TESTOPERATOR]
[BALLAST]
[BALLASTCAT]

CHARACTERISTICS

Lumens Per Lamp	23646 (1 lamp)
Total Lamp Lumens	23646
Luminaire Lumens	23646
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	151.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
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)	1.00 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	99457	100869	99182
55	57567	58903	57258
65	33456	33774	32779
75	21189	21790	20343
85	4771	6273	4565

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4764.27	20.10	20.10
0-30	10272.01	43.40	43.40
0-40	16035.00	67.80	67.80
0-60	22135.15	93.60	93.60
0-80	23557.66	99.60	99.60
0-90	23615.89	99.90	99.90
10-90	22418.24	94.80	94.80
20-40	11270.72	47.70	47.70
20-50	15222.78	64.40	64.40
40-70	7111.82	30.10	30.10
60-80	1422.5	6.00	6.00
70-80	410.84	1.70	1.70
80-90	58.24	0.20	0.20
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.30	0.00	0.00
90-150	12.16	0.10	0.10
90-180	30.13	0.10	0.10
110-180	30.13	0.10	0.10
0-180	23646.02	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1197.65
10-20	3566.62
20-30	5507.74
30-40	5762.99
40-50	3952.06
50-60	2148.1
60-70	1011.66
70-80	410.84
80-90	58.24
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.30
130-140	3.58
140-150	8.29
150-160	8.96
160-170	6.61
170-180	2.40

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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	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

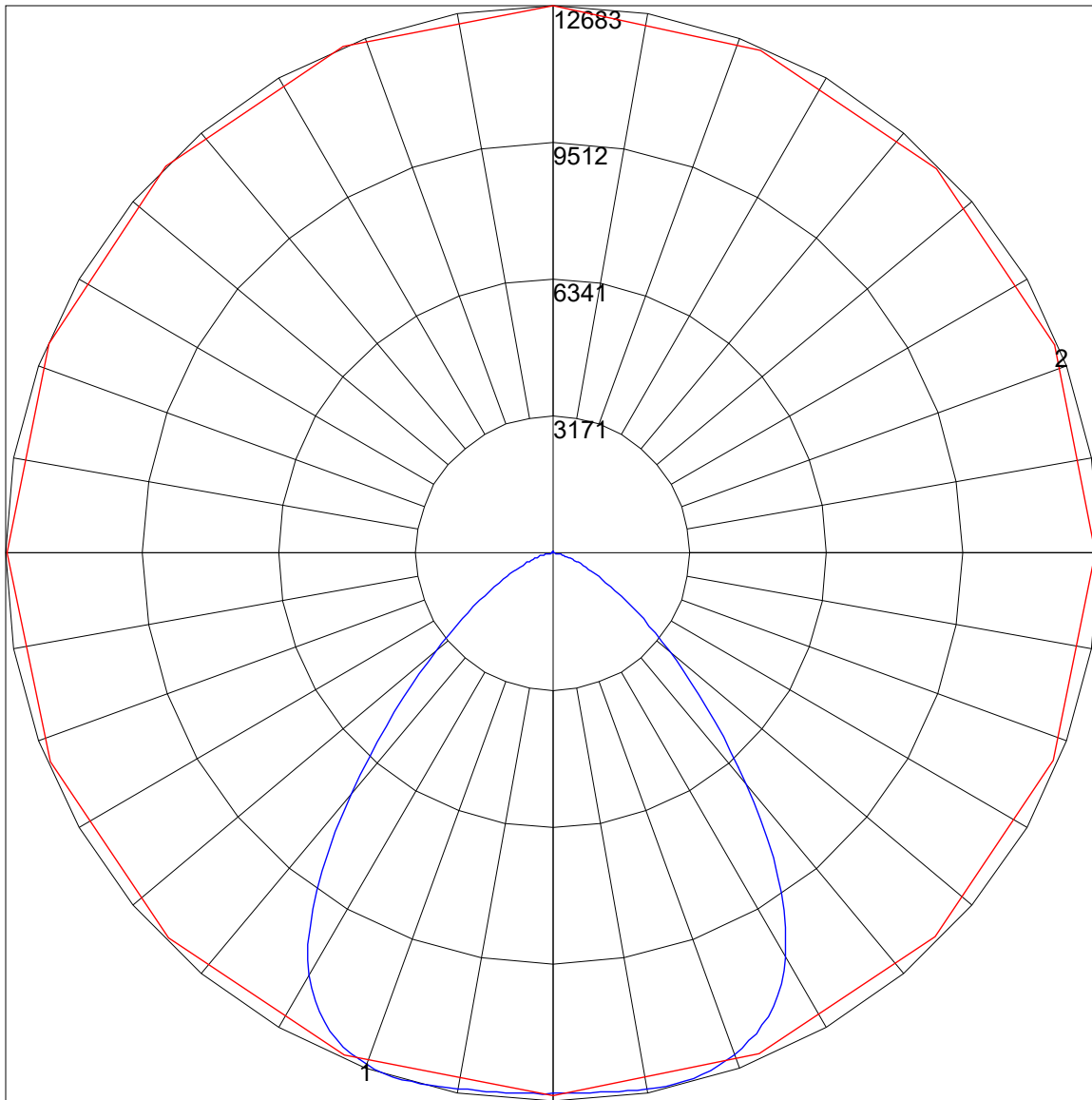
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UGR TABLE - CORRECTED

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	22.8	24.2	23.2	24.5	24.8	22.9	24.2	23.2	24.5	24.8
	3H	23.6	24.7	23.9	25.1	25.4	23.6	24.8	24.0	25.1	25.5
	4H	23.8	24.9	24.2	25.2	25.6	23.8	24.9	24.2	25.2	25.6
	6H	23.9	24.9	24.3	25.3	25.7	23.9	24.9	24.3	25.2	25.6
	8H	23.9	24.8	24.3	25.2	25.6	23.9	24.8	24.3	25.2	25.6
	12H	23.9	24.8	24.3	25.2	25.6	23.8	24.7	24.3	25.1	25.5
4H	2H	23.1	24.2	23.5	24.5	24.9	23.1	24.2	23.5	24.5	24.9
	3H	24.0	24.9	24.4	25.3	25.7	24.0	24.9	24.4	25.3	25.7
	4H	24.3	25.1	24.7	25.5	25.9	24.3	25.0	24.7	25.5	25.9
	6H	24.4	25.1	24.9	25.6	26.0	24.4	25.1	24.9	25.5	26.0
	8H	24.4	25.1	24.9	25.5	26.0	24.4	25.0	24.9	25.5	26.0
	12H	24.4	25.0	24.9	25.5	25.9	24.4	24.9	24.8	25.4	25.9
8H	4H	24.3	25.0	24.8	25.4	25.9	24.3	24.9	24.8	25.4	25.9
	6H	24.5	25.1	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0
	8H	24.6	25.0	25.1	25.5	26.0	24.5	25.0	25.0	25.5	26.0
	12H	24.5	25.0	25.0	25.4	26.0	24.5	24.9	25.0	25.4	26.0
12H	4H	24.3	24.9	24.8	25.3	25.8	24.3	24.8	24.7	25.3	25.8
	6H	24.5	25.0	25.0	25.4	26.0	24.5	24.9	25.0	25.4	25.9
	8H	24.5	25.0	25.1	25.5	26.0	24.5	24.9	25.0	25.4	26.0

Maximum UGR = 26.0

POLAR GRAPH



Maximum Candela = 12682.58 Located At Horizontal Angle = 112.5, Vertical Angle = 16
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (16) (Through Max. Cd.)