

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-D-4FT-B-835-F-KPL2008-50.602.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] KPL2008-50.602 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUE DATE] 1/18/2024
[TEST DATE] 02/27/2025
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-D-4ft-B-835-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER] INPUT ELECTRICAL: 277.0 VOLTS, 29.12 WATTS
[ABSOLUTE LUMENS] 2902
[LAMP] Samsung
[BALLAST] Osram
[BALLAST CAT] x1 @ 700mA
[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	29.12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10472	9994	9508
55	9527	8977	8516
65	8604	8085	7648
75	7678	7153	6903
85	6901	6477	6068

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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	1208.922	1208.922	1208.922	1208.922	1208.922
2.5	1200.649	1211.287	1204.560	1204.732	1207.376
5.0	1194.858	1205.133	1197.925	1197.148	1199.647
7.5	1186.034	1194.750	1186.243	1184.836	1186.619
10.0	1178.046	1185.065	1171.160	1167.417	1168.553
12.5	1155.442	1164.538	1155.902	1145.716	1145.189
15.0	1133.674	1140.251	1131.067	1120.902	1118.549
17.5	1108.798	1113.673	1101.152	1092.349	1087.957
20.0	1081.489	1085.250	1068.295	1059.642	1054.340
22.5	1051.482	1052.264	1032.873	1022.281	1017.447
25.0	1022.829	1018.880	996.648	982.176	978.457
27.5	980.646	981.081	959.463	942.408	934.670
30.0	943.160	938.289	918.576	899.269	891.895
32.5	902.407	898.705	877.656	855.863	846.855
35.0	862.648	857.505	832.021	814.625	803.909
37.5	820.969	813.007	787.606	766.008	757.436
40.0	774.160	767.794	741.805	721.132	711.215
42.5	730.124	721.867	698.063	676.634	666.675
45.0	685.668	677.474	654.364	630.959	622.555
47.5	639.951	631.716	608.815	586.293	577.931
50.0	593.982	586.356	563.476	542.215	534.147
52.5	548.433	541.416	519.735	500.007	492.800
55.0	505.994	497.885	476.749	460.572	452.294
57.5	463.051	453.029	435.234	418.804	411.703
60.0	419.351	411.116	392.963	378.929	372.290
62.5	378.004	370.147	352.725	338.481	334.498
65.0	336.690	329.760	316.404	303.565	299.302
67.5	295.966	290.563	277.318	267.696	264.284
70.0	258.703	251.852	241.669	233.534	230.332
72.5	219.449	212.550	205.763	198.767	196.708
75.0	183.994	179.907	171.430	167.159	165.421
77.5	151.016	146.233	139.528	135.653	134.394
80.0	117.754	113.918	110.078	106.306	104.653
82.5	85.954	84.255	81.496	79.725	81.920
85.0	55.692	53.730	52.267	50.856	48.969
87.5	29.102	26.415	24.901	23.636	23.959
90.0	3.459	3.599	3.622	4.488	3.508

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	431.58	N.A.	14.90
0-30	891.19	N.A.	30.70
0-40	1412.16	N.A.	48.70
0-60	2344.63	N.A.	80.80
0-80	2842.49	N.A.	98.00
0-90	2901.57	N.A.	100.00
10-90	2787.9	N.A.	96.10
20-40	980.58	N.A.	33.80
20-50	1485.1	N.A.	51.20
40-70	1246.44	N.A.	43.00
60-80	497.86	N.A.	17.20
70-80	183.90	N.A.	6.30
80-90	59.08	N.A.	2.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2901.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

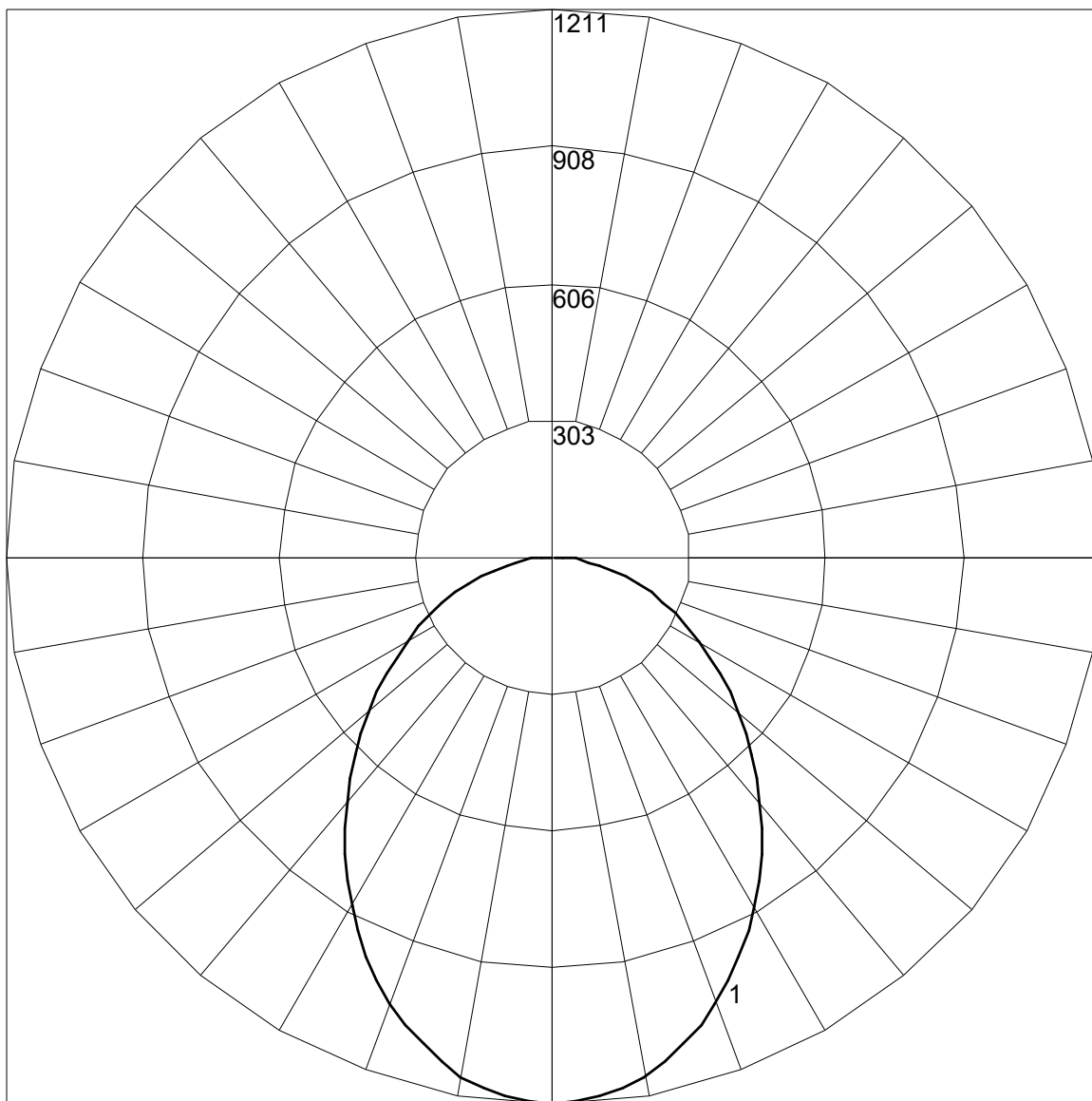
Zone	Lumens
0-10	113.67
10-20	317.91
20-30	459.61
30-40	520.97
40-50	504.51
50-60	427.96
60-70	313.97
70-80	183.90
80-90	59.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1211.287 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)