

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-F-F-KPL2008-50.603.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] KPL2008-50.603 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUE DATE] 1/18/2024
[TEST DATE] 02/27/25
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-D-4ft-S-835-F
[LUMINAIRE] HP3 Series
[LAMPCAT] 320 LM561B+ LEDs with 80 CRI
[OTHER] INPUT ELECTRICAL: 277.0 VOLTS, 26.7 WATTS
[ABSOLUTE LUMENS] 2319
[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	2319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	26.7
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	8370	7988	7600
55	7615	7175	6807
65	6877	6462	6113
75	6136	5717	5517
85	5516	5176	4850

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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	966.241	966.241	966.241	966.241	966.241
2.5	959.629	968.131	962.755	962.892	965.005
5.0	955.000	963.212	957.452	956.831	958.827
7.5	947.948	954.914	948.115	946.989	948.415
10.0	941.563	947.173	936.059	933.067	933.976
12.5	923.497	930.767	923.864	915.723	915.302
15.0	906.098	911.355	904.015	895.890	894.010
17.5	886.216	890.113	880.104	873.068	869.559
20.0	864.389	867.395	853.843	846.928	842.690
22.5	840.406	841.031	825.532	817.067	813.203
25.0	817.504	814.349	796.579	785.012	782.040
27.5	783.790	784.137	766.859	753.228	747.043
30.0	753.829	749.935	734.180	718.748	712.854
32.5	721.256	718.298	701.473	684.056	676.856
35.0	689.478	685.368	664.999	651.095	642.531
37.5	656.167	649.803	629.501	612.238	605.387
40.0	618.754	613.666	592.894	576.371	568.445
42.5	583.557	576.959	557.933	540.805	532.845
45.0	548.026	541.477	523.006	504.299	497.582
47.5	511.486	504.904	486.600	468.599	461.916
50.0	474.745	468.650	450.363	433.370	426.921
52.5	438.340	432.732	415.402	399.634	393.874
55.0	404.420	397.939	381.046	368.116	361.500
57.5	370.097	362.088	347.864	334.733	329.057
60.0	335.170	328.587	314.079	302.862	297.556
62.5	302.123	295.843	281.918	270.534	267.350
65.0	269.103	263.563	252.888	242.627	239.220
67.5	236.553	232.235	221.648	213.958	211.231
70.0	206.771	201.295	193.156	186.654	184.095
72.5	175.396	169.882	164.458	158.867	157.221
75.0	147.058	143.792	137.017	133.603	132.214
77.5	120.701	116.878	111.519	108.421	107.416
80.0	94.116	91.050	87.980	84.966	83.645
82.5	68.699	67.341	65.136	63.721	65.476
85.0	44.512	42.944	41.775	40.647	39.139
87.5	23.260	21.113	19.902	18.892	19.149
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	344.94	N.A.	14.90
0-30	712.29	N.A.	30.70
0-40	1128.68	N.A.	48.70
0-60	1873.97	N.A.	80.80
0-80	2271.89	N.A.	98.00
0-90	2319.21	N.A.	100.00
10-90	2228.36	N.A.	96.10
20-40	783.74	N.A.	33.80
20-50	1186.97	N.A.	51.20
40-70	996.22	N.A.	43.00
60-80	397.92	N.A.	17.20
70-80	146.98	N.A.	6.30
80-90	47.32	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	2319.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.85
10-20	254.09
20-30	367.34
30-40	416.39
40-50	403.24
50-60	342.05
60-70	250.94
70-80	146.98
80-90	47.32
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

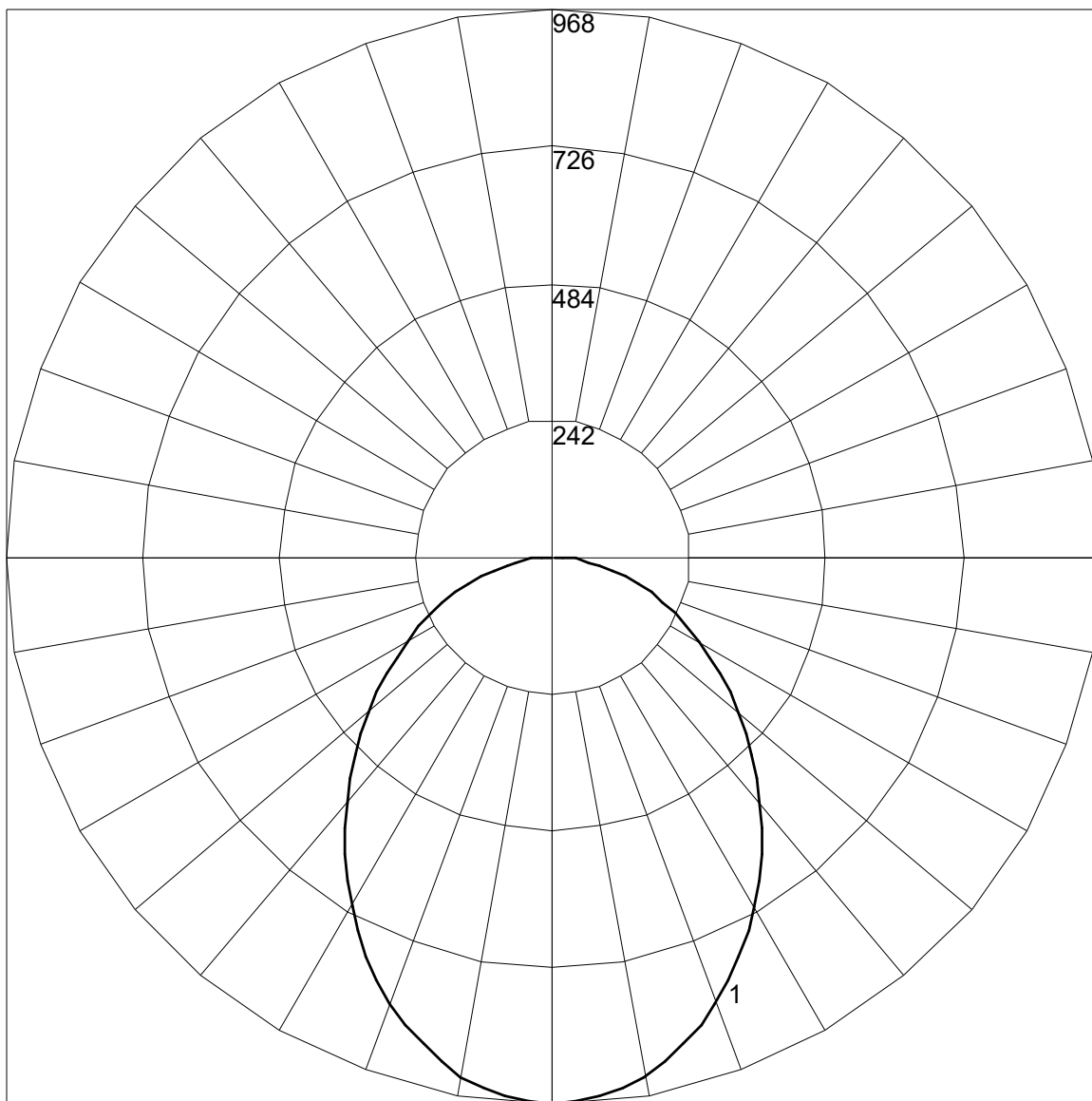
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	74	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	70	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 = 968.131 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)