

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4PS-L30-935-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20339.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 2/21/2025

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4"TALL HEATSINK 4"SQ FORMED HOUSING DOWNLIGHT

[MORE] 4"CAST SHALLOW WHITE FLUSH TRIM w/SOLITE LENS

[LUMCAT] 4PS-L30-935-DIM-UNV-LW-OF-WH

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2508
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	33.09
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	55740	85908	53818
55	39355	44197	37810
65	29083	28664	28384
75	20092	19863	19863
85	8814	8136	6780

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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	1411.207	1411.207	1411.207	1411.207	1411.207
5	1410.598	1405.723	1403.286	1402.677	1402.677
10	1394.146	1386.225	1385.006	1380.131	1378.303
15	1360.023	1350.884	1353.321	1349.056	1349.056
20	1325.292	1316.152	1311.277	1315.542	1317.980
25	1271.671	1269.843	1274.717	1268.624	1258.265
30	1141.884	1172.959	1205.254	1164.429	1109.589
35	903.636	993.816	1074.857	980.411	878.044
40	635.531	708.650	872.560	722.055	597.143
45	406.423	460.653	626.391	464.309	392.408
50	299.181	319.898	399.111	322.945	291.260
55	232.764	238.248	261.402	243.122	223.624
60	170.612	175.487	180.362	175.487	171.222
65	126.741	124.303	124.913	128.569	123.694
70	86.525	86.525	82.869	87.134	84.697
75	53.621	54.230	53.012	52.402	53.012
80	28.638	28.638	28.029	26.201	28.029
85	7.921	6.093	7.312	6.093	6.093
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	515.64	N.A.	20.60
0-30	1095.19	N.A.	43.70
0-40	1698.21	N.A.	67.70
0-60	2311.91	N.A.	92.20
0-80	2496.62	N.A.	99.60
0-90	2507.79	N.A.	100.00
10-90	2374.35	N.A.	94.70
20-40	1182.57	N.A.	47.20
20-50	1574.11	N.A.	62.80
40-70	740.45	N.A.	29.50
60-80	184.71	N.A.	7.40
70-80	57.96	N.A.	2.30
80-90	11.17	N.A.	0.40
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	2507.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.43
10-20	382.21
20-30	579.55
30-40	603.02
40-50	391.54
50-60	222.16
60-70	126.75
70-80	57.96
80-90	11.17
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	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	60	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

X=2H	Y=2H	22.7	24.0	23.0	24.3	24.6	22.7	24.0	23.1	24.3	24.7
	3H	23.8	25.0	24.1	25.3	25.7	23.8	25.0	24.2	25.3	25.7
	4H	24.1	25.2	24.5	25.6	26.0	24.1	25.2	24.5	25.6	26.0
	6H	24.3	25.4	24.7	25.7	26.1	24.3	25.3	24.7	25.7	26.1
	8H	24.4	25.3	24.8	25.7	26.1	24.3	25.3	24.8	25.7	26.1
	12H	24.4	25.3	24.8	25.7	26.1	24.4	25.3	24.8	25.7	26.1

UGR Viewed Endwise

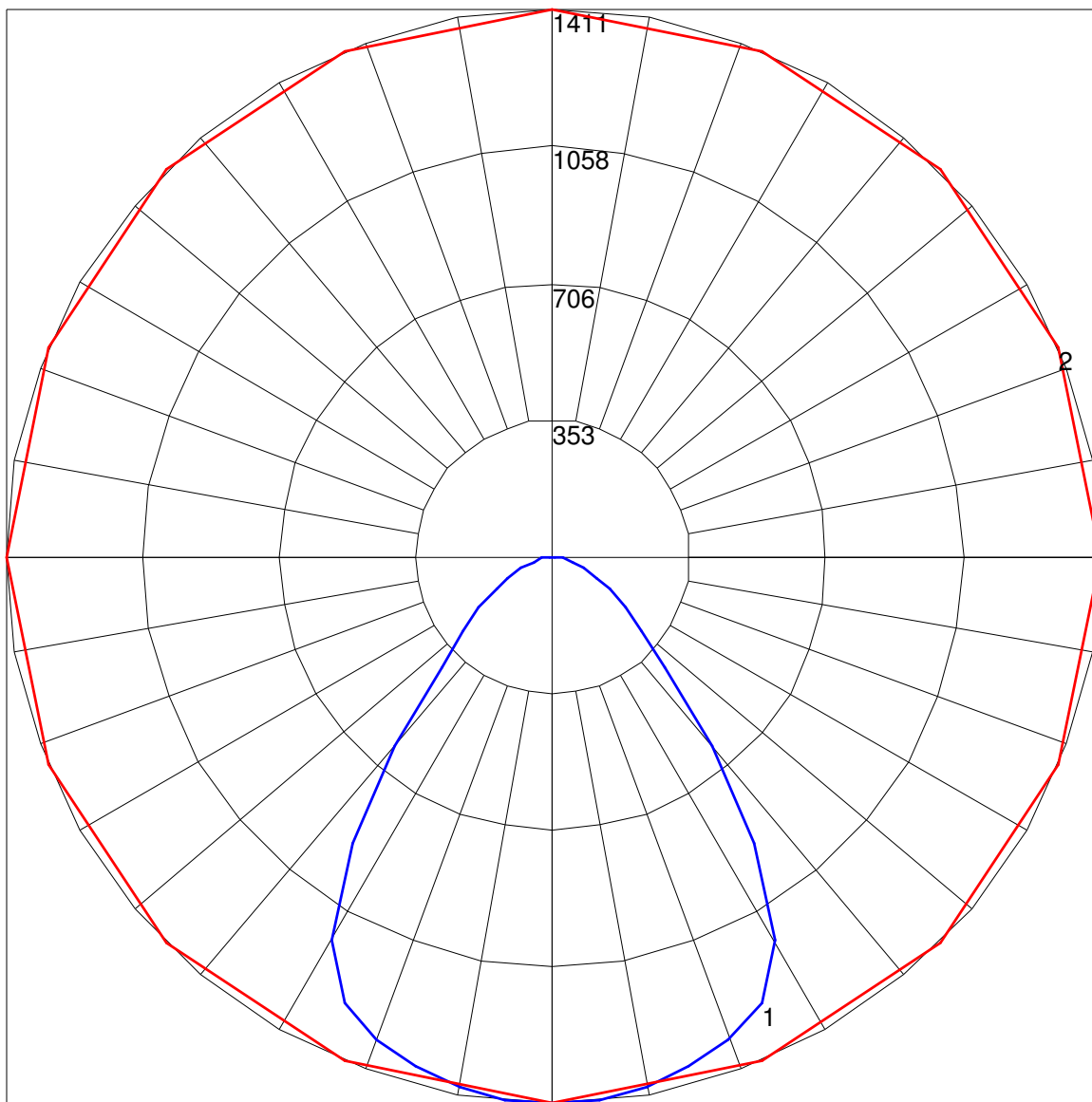
4H	2H	23.0	24.1	23.4	24.5	24.9	23.1	24.2	23.5	24.5	24.9
	3H	24.3	25.2	24.7	25.6	26.0	24.3	25.2	24.8	25.7	26.1
	4H	24.8	25.6	25.2	26.0	26.4	24.8	25.6	25.2	26.0	26.4
	6H	25.1	25.8	25.5	26.2	26.7	25.0	25.7	25.5	26.2	26.6
	8H	25.1	25.8	25.6	26.2	26.7	25.1	25.7	25.5	26.2	26.7
	12H	25.1	25.7	25.6	26.2	26.7	25.1	25.7	25.6	26.1	26.6

8H	4H	24.9	25.5	25.3	26.0	26.5	24.9	25.5	25.3	26.0	26.4
	6H	25.3	25.8	25.8	26.3	26.8	25.2	25.7	25.7	26.2	26.7
	8H	25.3	25.8	25.9	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	12H	25.4	25.8	25.9	26.3	26.9	25.3	25.7	25.8	26.2	26.8

12H	4H	24.9	25.4	25.4	25.9	26.4	24.9	25.4	25.4	25.9	26.4
	6H	25.2	25.7	25.8	26.2	26.7	25.2	25.7	25.7	26.2	26.7
	8H	25.4	25.8	25.9	26.3	26.9	25.3	25.7	25.8	26.2	26.8

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1411.207 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)