



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L50-835-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20372.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 6-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ FORMED HOUSING DOWNLIGHT

[MORE] NO OPTIC & 6"CAST WHITE FLUSH SHALLOW TRIM

[MORE] w/SOLITE LENS ADVANCE # XI050C140V054DSM5 @ 1125mA

[LUMCAT] 6PS-L50-835-LW-OF-WH-DIM-UNV

[_SEARCH_SOURCETYPE] LED

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

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	54.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	76928	97141	76201
55	35855	56203	34511
65	23358	28224	23480
75	16686	17878	16885
85	10028	8849	10028

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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	2665.412	2665.412	2665.412	2665.412	2665.412
5	2665.412	2657.045	2651.069	2643.897	2642.702
10	2630.750	2617.602	2616.407	2608.040	2608.040
15	2569.792	2560.230	2550.668	2554.253	2557.839
20	2483.734	2471.781	2472.976	2480.148	2486.124
25	2389.309	2384.528	2365.404	2379.747	2384.528
30	2287.712	2268.588	2249.464	2261.417	2276.955
35	2120.377	2110.815	2117.986	2113.205	2068.981
40	1761.801	1810.807	1924.356	1827.540	1752.239
45	1264.577	1374.540	1596.857	1419.959	1252.624
50	743.447	859.386	1178.518	959.787	736.275
55	478.101	523.520	749.423	552.206	460.172
60	319.132	350.209	435.072	362.161	321.523
65	229.488	241.441	277.298	247.417	230.684
70	161.359	164.945	176.897	168.531	158.969
75	100.401	101.596	107.573	107.573	101.596
80	54.982	54.982	57.372	56.177	54.982
85	20.319	17.929	17.929	16.734	20.319
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	973.74	N.A.	18.10
0-30	2070.89	N.A.	38.40
0-40	3372.29	N.A.	62.60
0-60	4992.15	N.A.	92.70
0-80	5361.42	N.A.	99.50
0-90	5386.55	N.A.	100.00
10-90	5134.57	N.A.	95.30
20-40	2398.55	N.A.	44.50
20-50	3473.13	N.A.	64.50
40-70	1875.12	N.A.	34.80
60-80	369.27	N.A.	6.90
70-80	114.01	N.A.	2.10
80-90	25.13	N.A.	0.50
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	5386.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	251.98
10-20	721.77
20-30	1097.15
30-40	1301.4
40-50	1074.58
50-60	545.28
60-70	255.26
70-80	114.01
80-90	25.13
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	199	199	199	199	194	194	194	194	186	186	186	178	178	178	171	171	171	167
1	186	180	174	169	182	176	171	166	169	165	161	163	159	156	157	154	152	148
2	173	161	152	145	168	158	150	143	153	146	140	147	142	137	143	138	134	130
3	160	145	134	125	156	143	132	124	138	129	122	134	126	120	130	123	118	115
4	148	131	119	109	145	129	118	109	125	115	107	122	113	106	118	111	105	101
5	138	119	106	97	135	117	105	96	114	103	95	111	102	94	108	100	93	90
6	128	109	96	86	125	107	95	86	104	93	85	102	92	84	99	91	84	81
7	120	99	86	77	117	98	86	77	96	85	77	94	84	76	91	82	76	73
8	112	91	79	70	109	90	78	70	88	77	69	86	76	69	84	75	69	66
9	105	84	72	64	103	83	72	63	82	71	63	80	70	63	78	69	63	60
10	99	78	66	58	97	77	66	58	76	65	58	74	64	57	73	64	57	55

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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

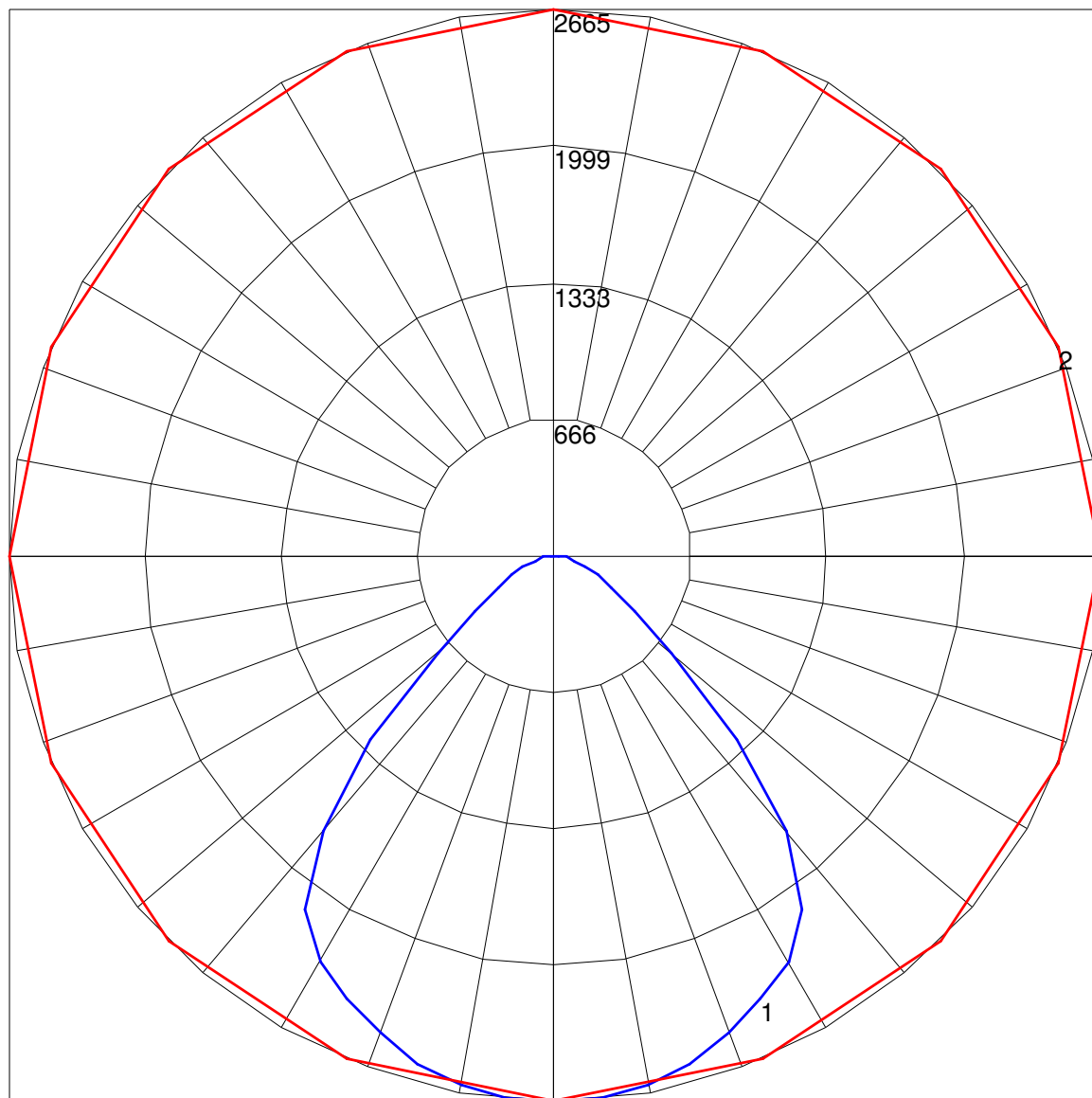
X=2H	Y=2H	20.4	21.8	20.8	22.1	22.5	20.7	22.1	21.0	22.4	22.7
	3H	21.4	22.6	21.8	22.9	23.3	21.6	22.8	21.9	23.1	23.5
	4H	21.7	22.8	22.1	23.2	23.6	21.9	23.0	22.3	23.4	23.7
	6H	21.9	22.9	22.3	23.3	23.7	22.0	23.1	22.4	23.5	23.9
	8H	21.9	22.9	22.3	23.3	23.7	22.1	23.1	22.5	23.5	23.9
	12H	21.9	22.9	22.3	23.3	23.7	22.1	23.0	22.5	23.4	23.9

UGR Viewed Endwise

4H	2H	20.9	22.1	21.3	22.4	22.8	21.1	22.2	21.5	22.6	23.0
	3H	22.0	22.9	22.4	23.3	23.7	22.2	23.1	22.6	23.5	23.9
	4H	22.4	23.2	22.8	23.6	24.1	22.6	23.4	23.0	23.8	24.2
	6H	22.6	23.4	23.1	23.8	24.3	22.8	23.5	23.3	24.0	24.4
	8H	22.7	23.4	23.2	23.8	24.3	22.9	23.5	23.3	24.0	24.5
	12H	22.7	23.3	23.2	23.8	24.3	22.9	23.5	23.4	24.0	24.4
8H	4H	22.5	23.2	23.0	23.6	24.1	22.7	23.3	23.1	23.8	24.3
	6H	22.8	23.4	23.3	23.9	24.4	23.0	23.5	23.5	24.0	24.5
	8H	22.9	23.4	23.4	23.9	24.4	23.1	23.6	23.6	24.1	24.6
	12H	23.0	23.4	23.5	23.9	24.5	23.1	23.6	23.6	24.1	24.6
12H	4H	22.5	23.1	23.0	23.6	24.0	22.6	23.2	23.1	23.7	24.2
	6H	22.8	23.3	23.4	23.8	24.3	23.0	23.5	23.5	24.0	24.5
	8H	23.0	23.4	23.5	23.9	24.5	23.1	23.5	23.6	24.0	24.6

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 2665.412 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.)