

IES INDOOR REPORT

PHOTOMETRIC FILENAME : M6PS-L20-935-DIM-UNV-LW-OF-WH-AD_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]BALLABS TEST NO. 20372.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 2/6/2025

[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] M6PS-L20-935-DIM-UNV-LW-OF-WH-AD

[LAMPCAT] BXRE-35E4000

[_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	1417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	22.98
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	20235	25552	20044
55	9431	14784	9078
65	6144	7424	6176
75	4389	4703	4441
85	2638	2328	2638

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : M6PS-L20-935-DIM-UNV-LW-OF-WH-AD_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	701.112	701.112	701.112	701.112	701.112
5	701.112	698.911	697.339	695.452	695.138
10	691.994	688.536	688.221	686.020	686.020
15	675.960	673.444	670.929	671.872	672.816
20	653.323	650.179	650.493	652.380	653.952
25	628.485	627.228	622.197	625.970	627.228
30	601.761	596.731	591.700	594.844	598.932
35	557.745	555.230	557.116	555.859	544.226
40	463.425	476.316	506.184	480.717	460.910
45	332.635	361.560	420.038	373.507	329.491
50	195.557	226.053	309.998	252.463	193.670
55	125.760	137.707	197.129	145.253	121.044
60	83.945	92.119	114.442	95.263	84.574
65	60.365	63.509	72.941	65.081	60.679
70	42.444	43.387	46.531	44.330	41.815
75	26.410	26.724	28.296	28.296	26.724
80	14.462	14.462	15.091	14.777	14.462
85	5.345	4.716	4.716	4.402	5.345
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : M6PS-L20-935-DIM-UNV-LW-OF-WH-AD_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	256.13	N.A.	18.10
0-30	544.73	N.A.	38.40
0-40	887.05	N.A.	62.60
0-60	1313.14	N.A.	92.70
0-80	1410.27	N.A.	99.50
0-90	1416.88	N.A.	100.00
10-90	1350.6	N.A.	95.30
20-40	630.92	N.A.	44.50
20-50	913.57	N.A.	64.50
40-70	493.23	N.A.	34.80
60-80	97.13	N.A.	6.90
70-80	29.99	N.A.	2.10
80-90	6.61	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	1416.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.28
10-20	189.85
20-30	288.59
30-40	342.32
40-50	282.66
50-60	143.43
60-70	67.14
70-80	29.99
80-90	6.61
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : M6PS-L20-935-DIM-UNV-LW-OF-WH-AD_.IES

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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	71	69
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33

IES INDOOR REPORT

PHOTOMETRIC FILENAME : M6PS-L20-935-DIM-UNV-LW-OF-WH-AD_.IES

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

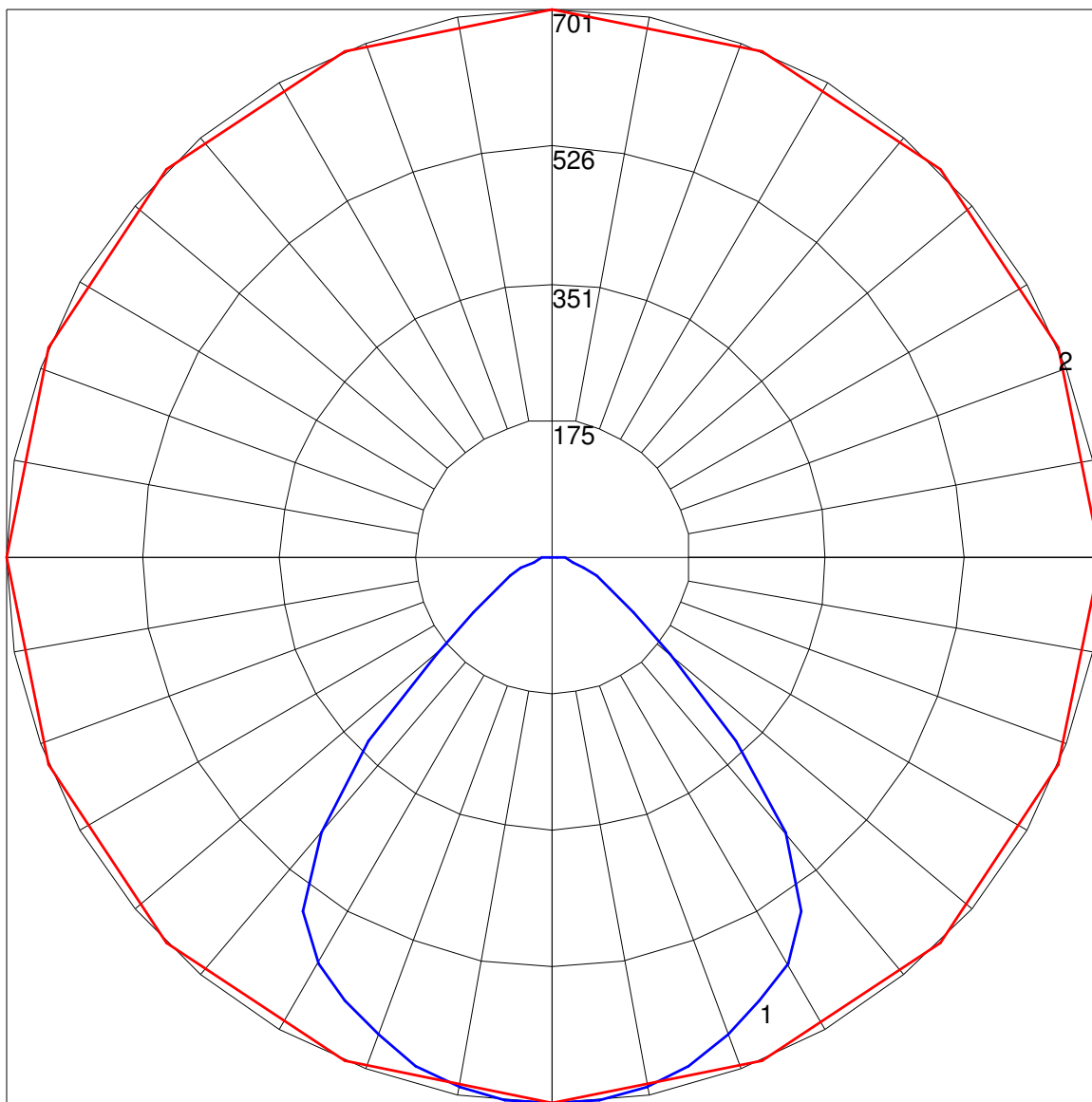
X=2H	Y=2H	17.5	18.9	17.9	19.2	19.6	17.8	19.2	18.1	19.5	19.8
	3H	18.5	19.7	18.9	20.0	20.4	18.7	19.9	19.0	20.2	20.6
	4H	18.8	19.9	19.2	20.3	20.7	19.0	20.1	19.4	20.5	20.8
	6H	19.0	20.0	19.4	20.4	20.8	19.1	20.2	19.5	20.6	21.0
	8H	19.0	20.0	19.4	20.4	20.8	19.2	20.2	19.6	20.6	21.0
	12H	19.0	20.0	19.4	20.4	20.8	19.2	20.1	19.6	20.5	21.0

UGR Viewed Endwise

4H	2H	18.0	19.2	18.4	19.5	19.9	18.2	19.4	18.6	19.7	20.1
	3H	19.1	20.0	19.5	20.4	20.9	19.3	20.2	19.7	20.6	21.0
	4H	19.5	20.3	19.9	20.7	21.2	19.7	20.5	20.1	20.9	21.4
	6H	19.8	20.5	20.2	20.9	21.4	19.9	20.6	20.4	21.1	21.5
	8H	19.8	20.5	20.3	20.9	21.4	20.0	20.6	20.4	21.1	21.6
	12H	19.8	20.4	20.3	20.9	21.4	20.0	20.6	20.5	21.1	21.5
8H	4H	19.6	20.3	20.1	20.7	21.2	19.8	20.4	20.2	20.9	21.4
	6H	19.9	20.5	20.4	21.0	21.5	20.1	20.6	20.6	21.1	21.6
	8H	20.0	20.5	20.5	21.0	21.5	20.2	20.7	20.7	21.2	21.7
	12H	20.1	20.5	20.6	21.0	21.6	20.2	20.7	20.7	21.2	21.7
12H	4H	19.6	20.2	20.1	20.7	21.1	19.7	20.3	20.2	20.8	21.3
	6H	19.9	20.4	20.5	20.9	21.4	20.1	20.6	20.6	21.1	21.6
	8H	20.1	20.5	20.6	21.0	21.6	20.2	20.6	20.7	21.1	21.7

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 701.112 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.)