



IES INDOOR REPORT

PHOTOMETRIC FILENAME : M6PS-L20-8TW-DIM-UNV-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20374.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 30-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] ACRYLIC MED TIR OPTIC & 6" CAST WHITE FLUSH SHALLOW TRIM

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

[LUMCAT] M6PS-L20-8TW-DIM-UNV-LM-OF-WH

[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	2098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.83 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2766	2348	2934
55	1361	1172	1361
65	666	561	666
75	283	217	283
85	36	35	36

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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	4311.819	4311.819	4311.819	4311.819	4311.819
5	4225.445	4198.454	4196.981	4185.203	4169.499
10	3799.466	3789.650	3785.233	3798.975	3789.160
15	2963.701	2970.572	2989.220	2996.091	3006.888
20	1869.796	1873.232	1884.519	1905.131	1856.055
25	967.288	993.299	1013.911	1014.401	1011.457
30	506.465	504.011	518.734	533.947	555.541
35	289.058	298.382	304.762	312.123	305.744
40	177.655	181.581	187.961	192.378	189.924
45	121.218	124.162	129.561	130.051	128.579
50	88.337	88.337	95.207	91.281	88.337
55	61.345	61.345	68.216	65.271	61.345
60	41.224	42.205	48.095	45.150	42.205
65	29.936	29.936	33.372	30.918	29.936
70	19.140	19.630	21.593	20.612	20.121
75	12.269	12.269	12.760	12.269	12.269
80	6.871	6.871	8.343	6.871	6.871
85	1.472	1.472	1.963	0.491	1.472
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1190.51	N.A.	56.80
0-30	1685.96	N.A.	80.40
0-40	1889.14	N.A.	90.10
0-60	2049.96	N.A.	97.70
0-80	2095.1	N.A.	99.90
0-90	2097.81	N.A.	100.00
10-90	1710.41	N.A.	81.50
20-40	698.63	N.A.	33.30
20-50	800.74	N.A.	38.20
40-70	192.14	N.A.	9.20
60-80	45.14	N.A.	2.20
70-80	13.82	N.A.	0.70
80-90	2.70	N.A.	0.10
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	2097.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	387.40
10-20	803.12
20-30	495.45
30-40	203.19
40-50	102.11
50-60	58.71
60-70	31.33
70-80	13.82
80-90	2.70
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

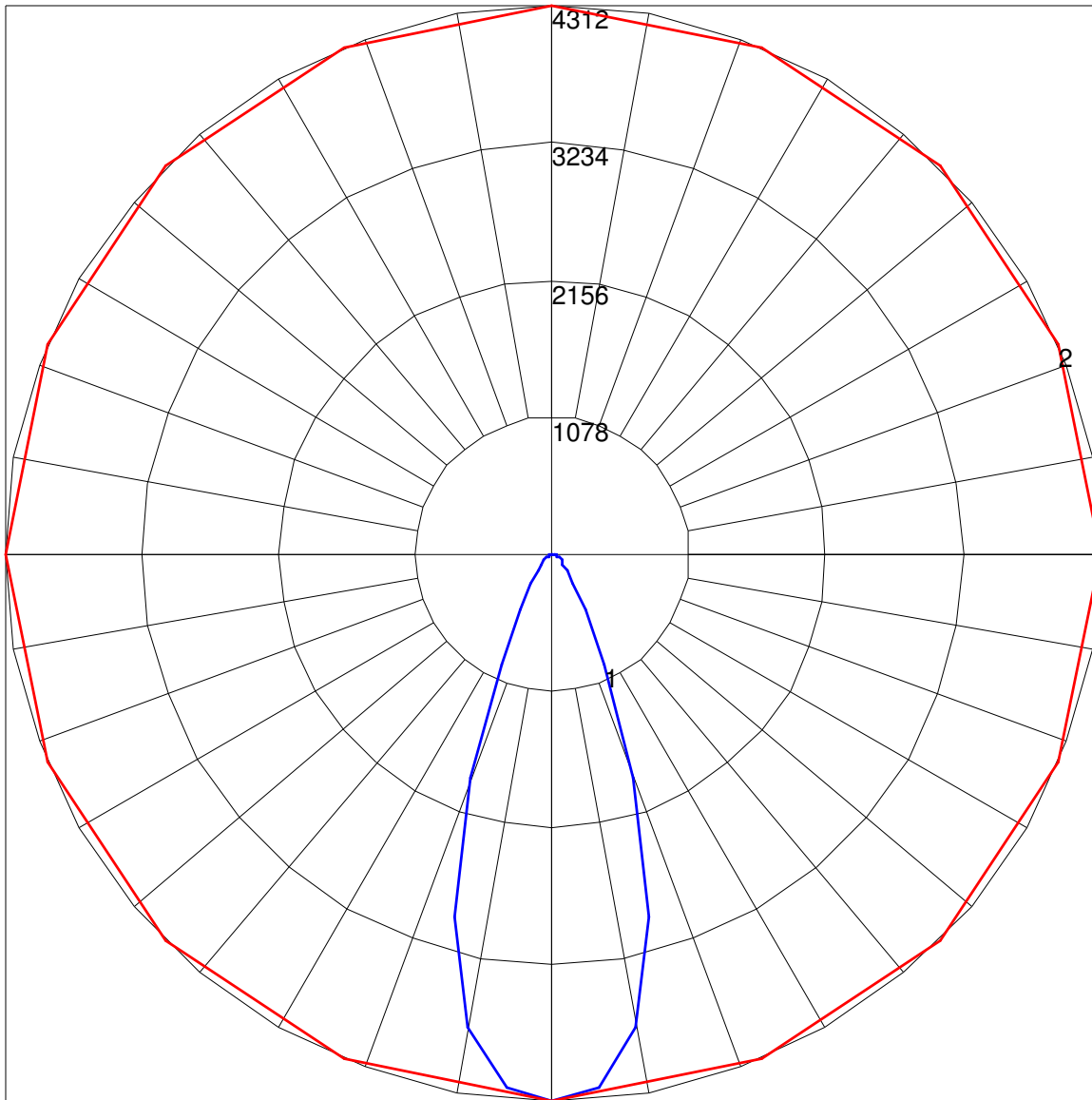
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	78	84	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	69	66	74	69	66	73	68	65	72	68	65	64
9	80	72	67	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	58

POLAR GRAPH



Maximum Candela = 4311.819 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.)