



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6PS-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] 6PS-L20-8TW-DIM-UNV-LM-OF-WH  
[LAMPCAT] BXRE-35E4000  
[ \_SEARCH\_SOURCE TYPE] 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>
<b>0</b>	4311.819	4311.819	4311.819	4311.819	4311.819
<b>5</b>	4225.445	4198.454	4196.981	4185.203	4169.499
<b>10</b>	3799.466	3789.650	3785.233	3798.975	3789.160
<b>15</b>	2963.701	2970.572	2989.220	2996.091	3006.888
<b>20</b>	1869.796	1873.232	1884.519	1905.131	1856.055
<b>25</b>	967.288	993.299	1013.911	1014.401	1011.457
<b>30</b>	506.465	504.011	518.734	533.947	555.541
<b>35</b>	289.058	298.382	304.762	312.123	305.744
<b>40</b>	177.655	181.581	187.961	192.378	189.924
<b>45</b>	121.218	124.162	129.561	130.051	128.579
<b>50</b>	88.337	88.337	95.207	91.281	88.337
<b>55</b>	61.345	61.345	68.216	65.271	61.345
<b>60</b>	41.224	42.205	48.095	45.150	42.205
<b>65</b>	29.936	29.936	33.372	30.918	29.936
<b>70</b>	19.140	19.630	21.593	20.612	20.121
<b>75</b>	12.269	12.269	12.760	12.269	12.269
<b>80</b>	6.871	6.871	8.343	6.871	6.871
<b>85</b>	1.472	1.472	1.963	0.491	1.472
<b>90</b>	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

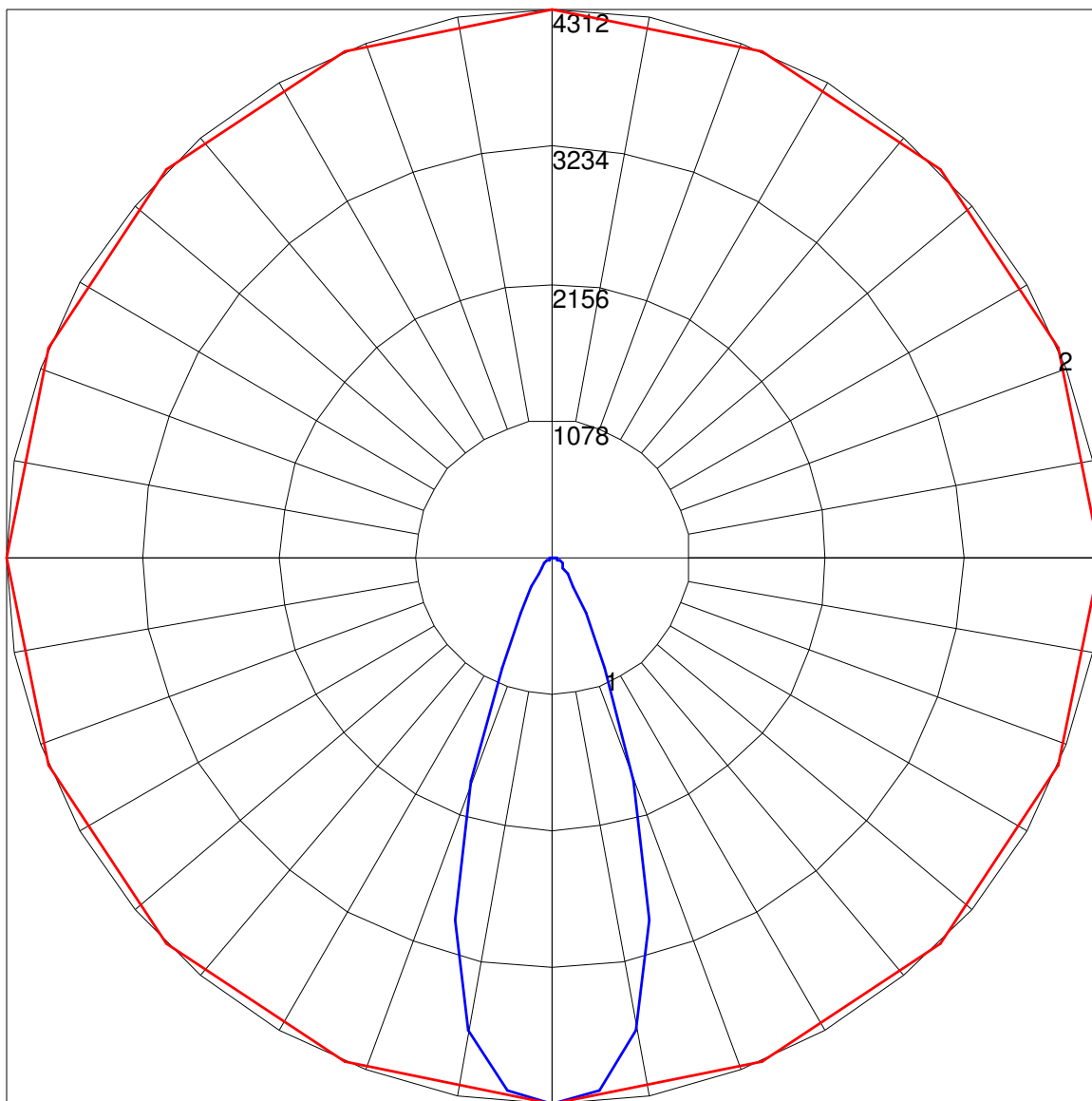
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	58	58	58	58	57	57	57	57	55	55	55	52	52	52	50	50	50	49
1	56	55	53	52	55	53	52	51	51	51	50	50	49	48	48	47	47	46
2	53	51	49	48	52	50	48	47	49	47	46	47	46	45	46	45	44	43
3	51	48	46	44	50	47	45	43	46	44	43	45	43	42	44	43	41	41
4	49	45	43	41	48	45	42	41	44	42	40	43	41	40	42	40	39	38
5	47	43	40	38	46	42	40	38	41	39	38	41	39	37	40	38	37	36
6	45	41	38	36	44	40	38	36	40	37	36	39	37	35	38	37	35	35
7	43	39	36	34	42	38	36	34	38	35	34	37	35	34	37	35	33	33
8	41	37	34	32	41	37	34	32	36	34	32	36	34	32	35	33	32	31
9	39	35	33	31	39	35	33	31	35	32	31	34	32	31	34	32	31	30
10	38	34	31	30	38	34	31	30	33	31	29	33	31	29	33	31	29	29

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.)