



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L20-840-DIM-UNV-LW-OF-WH-AD\_.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] 01-05-2023  
 [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-L20-840-DIM-UNV-LW-OF-WH-AD  
 [LAMPCAT] BXRE-40E4000  
 [\_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	1836
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	23.5
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	26219	33108	25971
55	12220	19155	11762
65	7961	9619	8002
75	5687	6093	5755
85	3418	3016	3418

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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>	908.427	908.427	908.427	908.427	908.427
<b>5</b>	908.427	905.575	903.538	901.094	900.687
<b>10</b>	896.613	892.132	891.725	888.873	888.873
<b>15</b>	875.838	872.579	869.320	870.542	871.764
<b>20</b>	846.507	842.434	842.841	845.285	847.322
<b>25</b>	814.325	812.696	806.178	811.066	812.696
<b>30</b>	779.699	773.181	766.663	770.737	776.033
<b>35</b>	722.668	719.409	721.853	720.224	705.151
<b>40</b>	600.458	617.160	655.860	622.863	597.199
<b>45</b>	430.994	468.471	544.241	483.951	426.920
<b>50</b>	253.382	292.896	401.663	327.115	250.938
<b>55</b>	162.947	178.426	255.419	188.203	156.836
<b>60</b>	108.767	119.358	148.281	123.432	109.582
<b>65</b>	78.214	82.288	94.509	84.325	78.622
<b>70</b>	54.994	56.217	60.290	57.439	54.180
<b>75</b>	34.219	34.626	36.663	36.663	34.626
<b>80</b>	18.739	18.739	19.554	19.146	18.739
<b>85</b>	6.925	6.110	6.110	5.703	6.925
<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	331.87	N.A.	18.10
0-30	705.80	N.A.	38.40
0-40	1149.35	N.A.	62.60
0-60	1701.43	N.A.	92.70
0-80	1827.28	N.A.	99.50
0-90	1835.85	N.A.	100.00
10-90	1749.97	N.A.	95.30
20-40	817.47	N.A.	44.50
20-50	1183.71	N.A.	64.50
40-70	639.08	N.A.	34.80
60-80	125.86	N.A.	6.90
70-80	38.86	N.A.	2.10
80-90	8.56	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	1835.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	85.88
10-20	245.99
20-30	373.93
30-40	443.54
40-50	366.24
50-60	185.84
60-70	87.00
70-80	38.86
80-90	8.56
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	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

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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	18.4	19.8	18.8	20.1	20.5	18.7	20.1	19.0	20.4	20.7
	3H	19.4	20.6	19.8	20.9	21.3	19.6	20.8	19.9	21.1	21.5
	4H	19.7	20.8	20.1	21.2	21.6	19.9	21.0	20.3	21.4	21.7
	6H	19.9	20.9	20.3	21.3	21.7	20.0	21.1	20.5	21.5	21.9
	8H	19.9	20.9	20.3	21.3	21.7	20.1	21.1	20.5	21.5	21.9
	12H	19.9	20.9	20.4	21.3	21.7	20.1	21.0	20.5	21.4	21.9

UGR Viewed Endwise

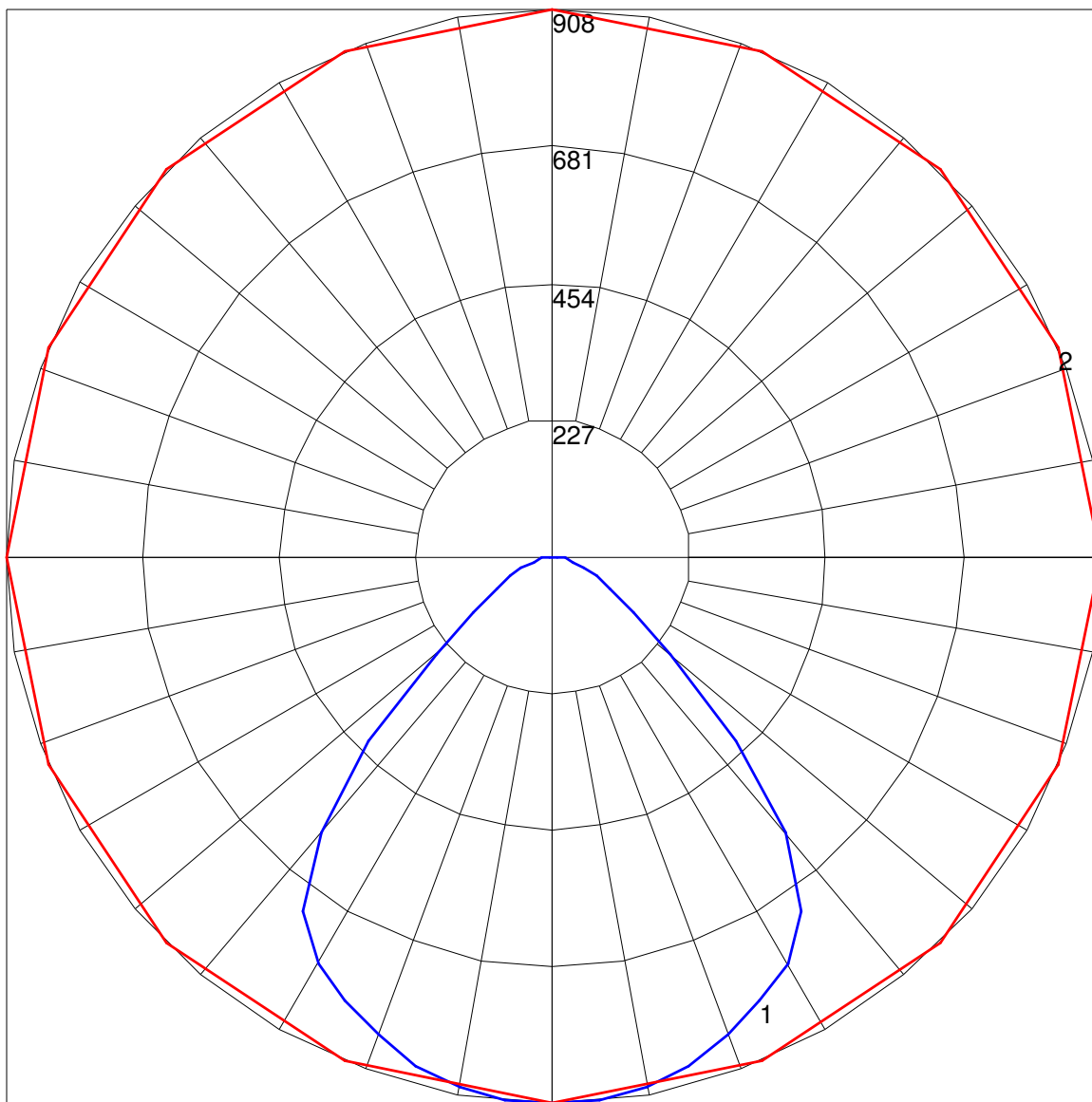
4H	2H	18.9	20.1	19.3	20.4	20.8	19.1	20.3	19.5	20.6	21.0
	3H	20.0	20.9	20.4	21.3	21.8	20.2	21.1	20.6	21.5	21.9
	4H	20.4	21.2	20.8	21.6	22.1	20.6	21.4	21.0	21.8	22.3
	6H	20.7	21.4	21.1	21.8	22.3	20.8	21.5	21.3	22.0	22.4
	8H	20.7	21.4	21.2	21.8	22.3	20.9	21.5	21.3	22.0	22.5
	12H	20.7	21.3	21.2	21.8	22.3	20.9	21.5	21.4	22.0	22.5

8H	4H	20.5	21.2	21.0	21.6	22.1	20.7	21.3	21.1	21.8	22.3
	6H	20.8	21.4	21.3	21.9	22.4	21.0	21.5	21.5	22.0	22.5
	8H	20.9	21.4	21.4	21.9	22.4	21.1	21.6	21.6	22.1	22.6
	12H	21.0	21.4	21.5	21.9	22.5	21.1	21.6	21.6	22.1	22.6

12H	4H	20.5	21.1	21.0	21.6	22.0	20.7	21.2	21.1	21.7	22.2
	6H	20.8	21.3	21.4	21.8	22.3	21.0	21.5	21.5	22.0	22.5
	8H	21.0	21.4	21.5	21.9	22.5	21.1	21.5	21.6	22.0	22.6

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 908.427 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.)