

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L60-950-(L53)-DIM1-OW-OF-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20343.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 07/11/2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"ALUM SEMI-SPEC TRIM w/FROST FILM

[LUMCAT] 6DS-L60-950-(L53)-DIM1-OW-OF-CS

[\_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	4681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	58.14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	22945	35595	22357
55	3264	5803	3264
65	0	0	0
75	0	0	0
85	0	0	0

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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>	5391.854	5391.854	5391.854	5391.854	5391.854
<b>5</b>	5353.169	5345.915	5319.318	5302.393	5297.557
<b>10</b>	5067.860	5087.203	5075.113	5038.845	5031.592
<b>15</b>	4596.375	4613.300	4606.046	4579.449	4562.524
<b>20</b>	4003.996	3999.160	4020.921	3994.324	3979.817
<b>25</b>	3208.516	3300.395	3329.410	3256.874	3160.159
<b>30</b>	2222.024	2316.321	2519.423	2328.411	2241.367
<b>35</b>	1320.158	1528.095	1810.986	1467.648	1288.726
<b>40</b>	759.212	834.166	1131.564	800.316	747.122
<b>45</b>	377.188	447.306	585.125	454.560	367.517
<b>50</b>	152.326	186.176	241.787	181.340	149.908
<b>55</b>	43.522	60.447	77.372	62.865	43.522
<b>60</b>	4.836	7.254	16.925	7.254	2.418
<b>65</b>	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	2.418	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000
<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	1780.94	N.A.	38.00
0-30	3254.16	N.A.	69.50
0-40	4226.73	N.A.	90.30
0-60	4678.79	N.A.	99.90
0-80	4681.23	N.A.	100.00
0-90	4681.23	N.A.	100.00
10-90	4181.59	N.A.	89.30
20-40	2445.79	N.A.	52.20
20-50	2827.1	N.A.	60.40
40-70	454.34	N.A.	9.70
60-80	2.44	N.A.	0.10
70-80	0.16	N.A.	0.00
80-90	0.00	N.A.	0.00
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	4681.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	499.63
10-20	1281.31
20-30	1473.22
30-40	972.57
40-50	381.31
50-60	70.75
60-70	2.28
70-80	0.16
80-90	0.00
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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	59	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

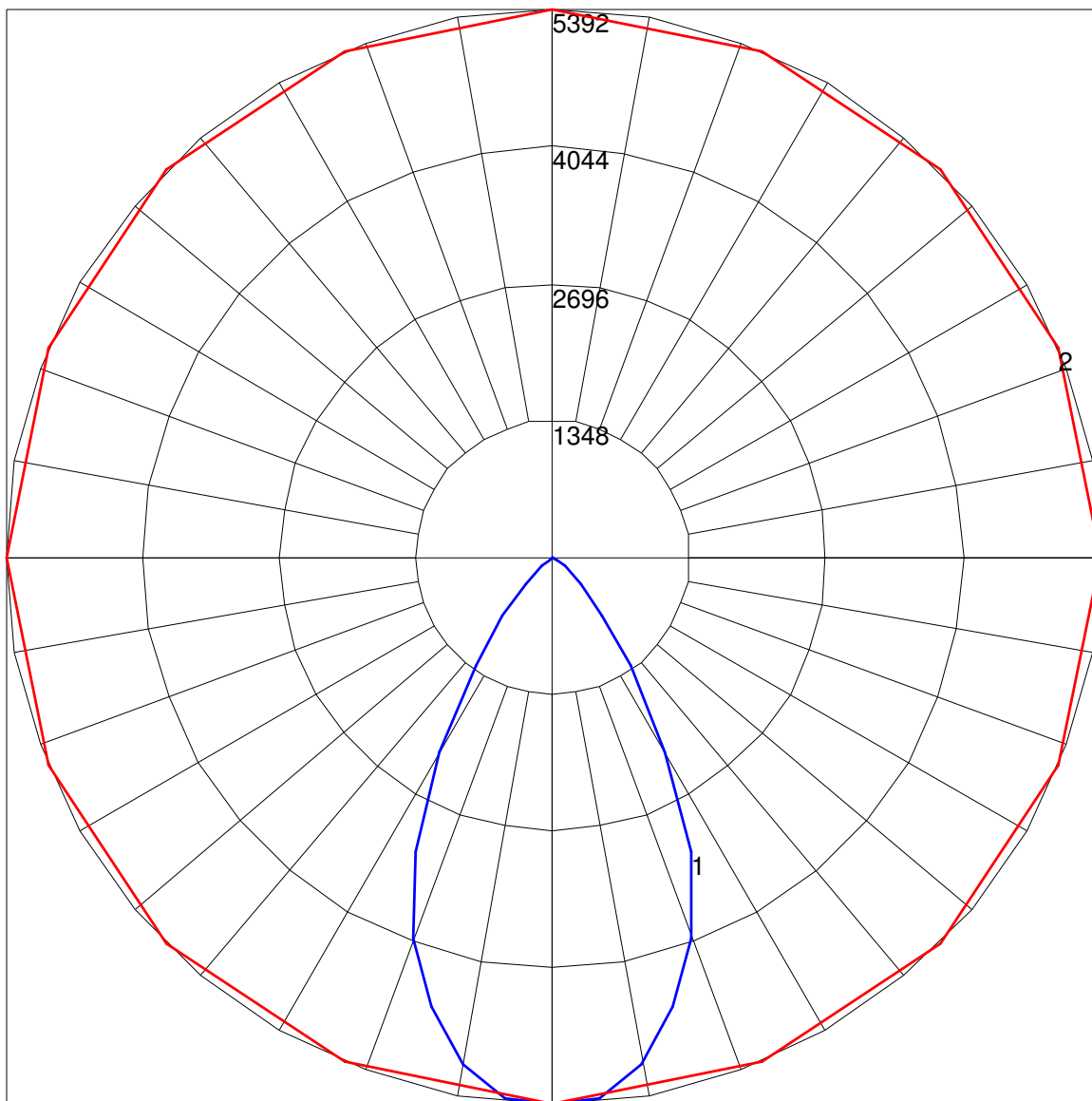
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	5.4	5.8	5.4	6.2	6.5	5.4	6.0	5.4	6.3	6.6
	3H	5.4	5.5	5.4	5.9	6.2	5.4	5.7	5.4	6.0	6.4
	4H	5.4	5.4	5.4	5.7	6.1	5.4	5.5	5.4	5.9	6.3
	6H	5.4	5.4	5.4	5.6	6.0	5.4	5.4	5.4	5.7	6.1
	8H	5.4	5.4	5.4	5.5	5.9	5.4	5.4	5.4	5.6	6.0
	12H	5.4	5.4	5.4	5.4	5.8	5.4	5.4	5.4	5.5	6.0
4H	2H	5.4	5.4	5.4	5.7	6.1	5.4	5.5	5.4	5.9	6.3
	3H	5.4	5.4	5.4	5.4	5.8	5.4	5.4	5.4	5.6	6.0
	4H	5.4	5.4	5.4	5.4	5.7	5.4	5.4	5.4	5.4	5.8
	6H	5.4	5.4	5.4	5.4	5.6	5.4	5.4	5.4	5.4	5.7
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.6
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5
8H	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.6
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
12H	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

Maximum UGR = 6.6

POLAR GRAPH



Maximum Candela = 5391.854 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.)