



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L25-RGB940-DMX-UNV-OW-OF-WH WHITE ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20343.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16 OCT 2024

[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 WHITE TRIM w/FROST FILM

[LUMCAT] 6DS-L25-RGB/940-DMX-UNV-OW-OF-WH WHITE ONLY

[\_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	2426
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	55.1
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	11892	18448	11587
55	1692	3007	1692
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>	2794.413	2794.413	2794.413	2794.413	2794.413
<b>5</b>	2774.363	2770.604	2756.820	2748.048	2745.542
<b>10</b>	2626.498	2636.522	2630.257	2611.460	2607.701
<b>15</b>	2382.143	2390.915	2387.156	2373.371	2364.600
<b>20</b>	2075.134	2072.627	2083.905	2070.121	2062.603
<b>25</b>	1662.864	1710.482	1725.519	1687.926	1637.802
<b>30</b>	1151.599	1200.470	1305.730	1206.735	1161.624
<b>35</b>	684.193	791.959	938.572	760.632	667.902
<b>40</b>	393.473	432.320	586.451	414.776	387.208
<b>45</b>	195.484	231.824	303.250	235.583	190.471
<b>50</b>	78.945	96.489	125.310	93.983	77.692
<b>55</b>	22.556	31.328	40.099	32.581	22.556
<b>60</b>	2.506	3.759	8.772	3.759	1.253
<b>65</b>	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	1.253	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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DS-L25-RGB940-DMX-UNV-OW-OF-WH WHITE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	923.00	N.A.	38.00
0-30	1686.52	N.A.	69.50
0-40	2190.57	N.A.	90.30
0-60	2424.85	N.A.	99.90
0-80	2426.12	N.A.	100.00
0-90	2426.12	N.A.	100.00
10-90	2167.18	N.A.	89.30
20-40	1267.57	N.A.	52.20
20-50	1465.19	N.A.	60.40
40-70	235.47	N.A.	9.70
60-80	1.27	N.A.	0.10
70-80	0.08	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	2426.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	258.94
10-20	664.06
20-30	763.52
30-40	504.05
40-50	197.62
50-60	36.67
60-70	1.18
70-80	0.08
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	149	149	149	149	146	146	146	146	139	139	139	133	133	133	128	128	128	125
1	142	139	136	133	139	136	133	131	131	129	127	126	125	123	122	121	119	117
2	135	129	124	120	132	127	122	118	123	119	116	119	116	113	116	113	111	109
3	128	120	114	109	126	118	113	108	115	110	106	112	108	105	109	106	103	101
4	122	112	105	100	119	111	104	99	108	102	98	105	101	97	103	99	96	94
5	115	105	98	92	113	104	97	92	101	95	91	99	94	90	97	93	89	87
6	110	98	91	85	108	97	90	85	95	89	84	94	88	84	92	87	83	81
7	104	92	85	79	102	91	84	79	90	83	79	88	83	78	87	82	78	76
8	99	87	79	74	97	86	79	74	85	78	74	83	78	73	82	77	73	71
9	94	82	75	69	93	81	74	69	80	74	69	79	73	69	78	73	69	67
10	90	77	70	65	88	77	70	65	76	69	65	75	69	65	74	69	65	63

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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

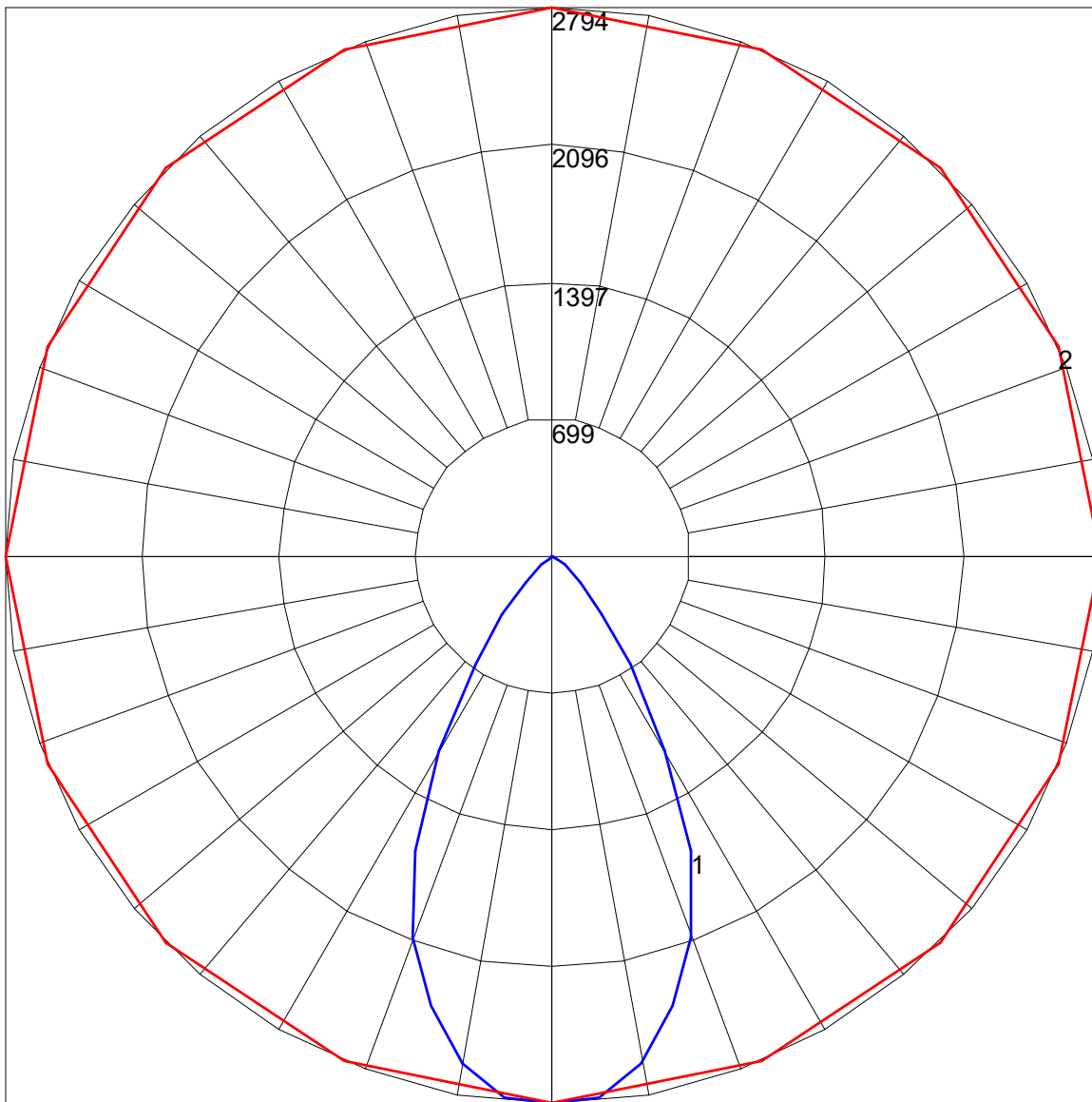
X=2H	Y=2H	2.3	2.7	2.3	3.1	3.4	2.3	2.9	2.3	3.2	3.5
	3H	2.3	2.4	2.3	2.8	3.1	2.3	2.6	2.3	2.9	3.3
	4H	2.3	2.3	2.3	2.6	3.0	2.3	2.4	2.3	2.8	3.2
	6H	2.3	2.3	2.3	2.5	2.9	2.3	2.3	2.3	2.6	3.0
	8H	2.3	2.3	2.3	2.4	2.8	2.3	2.3	2.3	2.5	2.9
	12H	2.3	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.4	2.9

### UGR Viewed Endwise

4H	2H	2.3	2.3	2.3	2.6	3.0	2.3	2.4	2.3	2.8	3.2
	3H	2.3	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.5	2.9
	4H	2.3	2.3	2.3	2.3	2.6	2.3	2.3	2.3	2.3	2.7
	6H	2.3	2.3	2.3	2.3	2.5	2.3	2.3	2.3	2.3	2.6
	8H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
	12H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
8H	4H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
	6H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	8H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	12H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
12H	4H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
	6H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	8H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3

Maximum UGR = 3.5

POLAR GRAPH



Maximum Candela = 2794.413 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.)