



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L25-RGB940-DMX-UNV-OW-OF-CS 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

[ISSUE DATE] 16 OCT 20244

[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-L25-RGB/940-DMX-UNV-OW-OF-CS 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	2451
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	12014	18637	11706
55	1709	3038	1709
65	0	0	0
75	0	0	0
85	0	0	0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DS-L25-RGB940-DMX-UNV-OW-OF-CS WHITE ONLY.IES****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>	2823.180	2823.180	2823.180	2823.180	2823.180
<b>5</b>	2802.924	2799.126	2785.200	2776.338	2773.806
<b>10</b>	2653.536	2663.664	2657.334	2638.344	2634.546
<b>15</b>	2406.666	2415.528	2411.730	2397.804	2388.942
<b>20</b>	2096.496	2093.964	2105.358	2091.432	2083.836
<b>25</b>	1679.982	1728.090	1743.282	1705.302	1654.662
<b>30</b>	1163.454	1212.828	1319.172	1219.158	1173.582
<b>35</b>	691.236	800.112	948.234	768.462	674.778
<b>40</b>	397.524	436.770	592.488	419.046	391.194
<b>45</b>	197.496	234.210	306.372	238.008	192.432
<b>50</b>	79.758	97.482	126.600	94.950	78.492
<b>55</b>	22.788	31.650	40.512	32.916	22.788
<b>60</b>	2.532	3.798	8.862	3.798	1.266
<b>65</b>	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	1.266	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-CS WHITE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	932.50	N.A.	38.00
0-30	1703.88	N.A.	69.50
0-40	2213.12	N.A.	90.30
0-60	2449.82	N.A.	99.90
0-80	2451.1	N.A.	100.00
0-90	2451.1	N.A.	100.00
10-90	2189.49	N.A.	89.30
20-40	1280.62	N.A.	52.20
20-50	1480.27	N.A.	60.40
40-70	237.89	N.A.	9.70
60-80	1.28	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	2451.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	261.61
10-20	670.89
20-30	771.38
30-40	509.24
40-50	199.65
50-60	37.04
60-70	1.20
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	151	151	151	151	147	147	147	147	141	141	141	135	135	135	129	129	129	127
1	144	140	137	134	141	137	135	132	132	130	128	128	126	124	123	122	121	118
2	137	130	125	121	134	128	124	120	124	120	117	120	117	114	117	114	112	110
3	130	121	115	110	127	120	114	109	116	111	107	113	109	106	110	107	104	102
4	123	113	106	101	121	112	105	100	109	104	99	107	102	98	104	100	97	95
5	117	106	99	93	115	105	98	93	102	96	92	100	95	91	98	94	90	88
6	111	99	92	86	109	98	91	86	96	90	85	95	89	85	93	88	84	82
7	105	93	86	80	103	92	85	80	91	84	80	89	83	79	88	83	79	77
8	100	88	80	75	98	87	80	75	86	79	74	84	78	74	83	78	74	72
9	95	83	75	70	94	82	75	70	81	74	70	80	74	70	79	73	69	68
10	91	78	71	66	89	78	71	66	77	70	66	76	70	65	75	69	65	64

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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

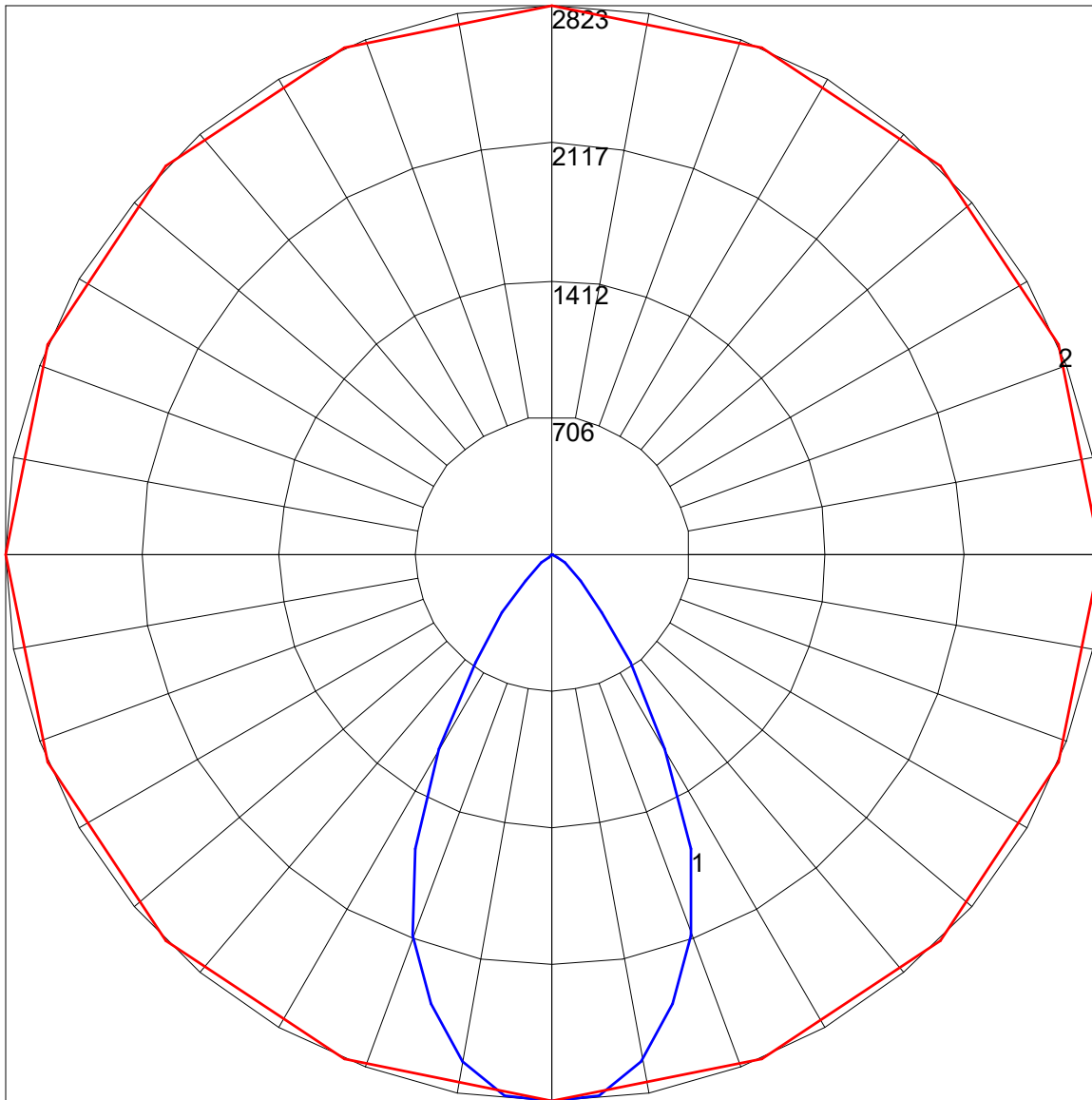
X=2H	Y=2H	2.3	2.7	2.3	3.1	3.4	2.3	2.9	2.3	3.2	3.5
	3H	2.3	2.4	2.3	2.8	3.1	2.3	2.6	2.3	2.9	3.3
	4H	2.3	2.3	2.3	2.6	3.0	2.3	2.4	2.3	2.8	3.2
	6H	2.3	2.3	2.3	2.5	2.9	2.3	2.3	2.3	2.6	3.0
	8H	2.3	2.3	2.3	2.4	2.8	2.3	2.3	2.3	2.5	2.9
	12H	2.3	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.4	2.9

### 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 = 2823.18 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.)