



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN froim BALLABS TEST NO. 20349.0

[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"CAST WHITE FLUSH TRIM w/SOLITE

[MORE] LENS

[LUMCAT] 6DS-L25-RGB/940-DMX-UNV-LW-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	2623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	55.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.10
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	24427	28191	23889
55	19034	19507	18845
65	13238	13238	12852
75	8394	8184	7975
85	1870	1246	2493

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DS-L25-RGB940-DMX-UNV-LW-OF-WH 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>
0	1771.568	1771.568	1771.568	1771.568	1771.568
5	1776.619	1767.780	1767.780	1766.517	1770.305
10	1760.204	1752.628	1751.365	1745.051	1755.153
15	1736.212	1723.585	1713.484	1708.433	1713.484
20	1650.349	1668.027	1676.866	1654.137	1632.671
25	1445.791	1486.198	1594.790	1501.350	1452.105
30	1079.608	1205.878	1361.191	1214.717	1080.871
35	661.655	796.764	1066.981	752.569	664.180
40	500.029	549.274	731.103	527.809	493.716
45	401.539	425.530	463.411	414.166	392.700
50	321.988	335.878	345.980	328.302	321.988
55	253.803	253.803	260.116	255.065	251.277
60	184.354	185.617	183.091	183.091	186.880
65	130.058	130.058	130.058	128.795	126.270
70	85.864	84.601	79.550	83.338	84.601
75	50.508	49.245	49.245	47.983	47.983
80	27.779	25.254	23.991	23.991	23.991
85	3.788	5.051	2.525	3.788	5.051
90	0.000	0.000	0.000	0.000	0.000

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

Zone	Lumens	%Lamp	%Fixt
0-20	652.43	N.A.	24.90
0-30	1329.33	N.A.	50.70
0-40	1861.97	N.A.	71.00
0-60	2430.14	N.A.	92.60
0-80	2614.43	N.A.	99.70
0-90	2623.32	N.A.	100.00
10-90	2455.05	N.A.	93.60
20-40	1209.54	N.A.	46.10
20-50	1548.12	N.A.	59.00
40-70	698.21	N.A.	26.60
60-80	184.29	N.A.	7.00
70-80	54.25	N.A.	2.10
80-90	8.89	N.A.	0.30
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	2623.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.27
10-20	484.17
20-30	676.90
30-40	532.64
40-50	338.59
50-60	229.59
60-70	130.04
70-80	54.25
80-90	8.89
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

IES INDOOR REPORT

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

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	201	201	201	201	197	197	197	197	188	188	188	180	180	180	173	173	173	169
1	189	183	178	173	185	179	174	170	172	168	165	166	163	160	160	157	155	152
2	176	166	157	150	172	163	155	148	157	150	145	152	146	141	147	142	138	135
3	165	151	140	131	161	148	138	130	144	135	128	139	132	126	135	129	124	121
4	154	138	126	117	150	136	125	116	132	122	115	128	120	113	125	118	112	109
5	144	126	114	105	141	125	113	104	121	111	103	118	109	102	115	108	101	98
6	135	116	104	95	132	115	103	95	112	102	94	110	100	93	107	99	93	90
7	127	108	95	87	124	106	95	86	104	94	86	102	92	85	100	91	85	82
8	119	100	88	80	117	99	87	79	97	86	79	95	85	79	93	85	78	75
9	113	93	81	73	110	92	81	73	91	80	73	89	79	73	87	79	72	70
10	106	87	76	68	105	86	75	68	85	75	68	83	74	67	82	73	67	65

IES INDOOR REPORT

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

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	18.3	19.6	18.7	19.9	20.2	18.3	19.6	18.7	19.9	20.2
	3H	19.3	20.5	19.7	20.8	21.1	19.3	20.4	19.6	20.7	21.1
	4H	19.6	20.6	20.0	21.0	21.4	19.5	20.6	19.9	20.9	21.3
	6H	19.7	20.7	20.2	21.1	21.5	19.6	20.6	20.1	21.0	21.4
	8H	19.8	20.7	20.2	21.1	21.5	19.6	20.6	20.1	21.0	21.4
	12H	19.7	20.6	20.2	21.0	21.4	19.6	20.5	20.0	20.9	21.3

UGR Viewed Endwise

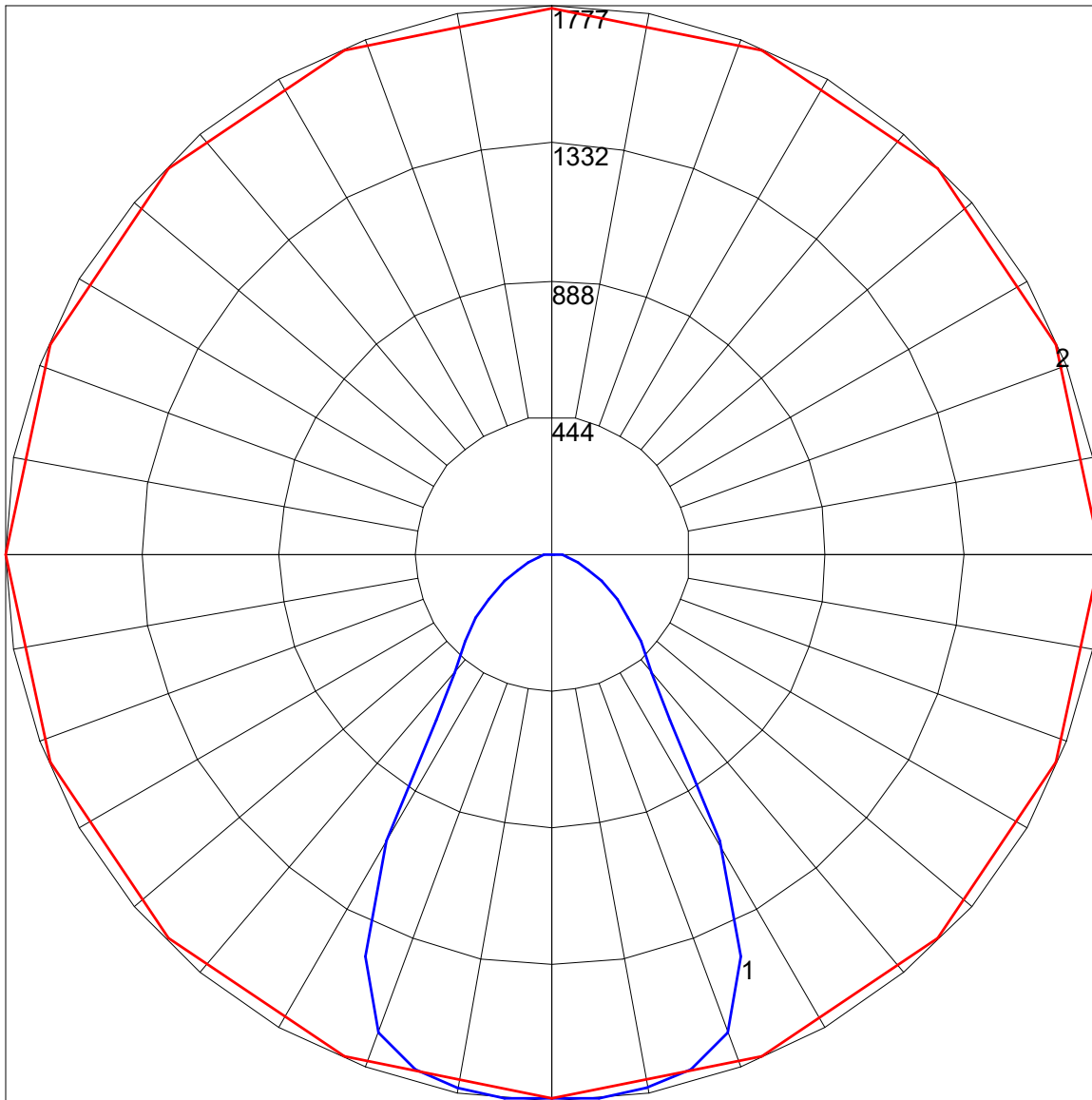
4H	2H	18.6	19.7	19.1	20.1	20.4	18.6	19.7	19.0	20.0	20.4
	3H	19.8	20.7	20.2	21.1	21.5	19.7	20.6	20.1	21.0	21.4
	4H	20.1	20.9	20.6	21.3	21.8	20.1	20.8	20.5	21.3	21.7
	6H	20.4	21.0	20.8	21.5	21.9	20.3	20.9	20.7	21.4	21.8
	8H	20.4	21.0	20.8	21.5	21.9	20.3	20.9	20.7	21.3	21.8
	12H	20.4	20.9	20.9	21.4	21.9	20.3	20.8	20.7	21.3	21.8

8H	4H	20.2	20.8	20.6	21.3	21.7	20.1	20.8	20.6	21.2	21.7
	6H	20.5	21.0	21.0	21.5	22.0	20.4	20.9	20.9	21.4	21.9
	8H	20.5	21.0	21.1	21.5	22.0	20.4	20.9	20.9	21.4	21.9
	12H	20.5	20.9	21.1	21.4	22.0	20.4	20.8	20.9	21.3	21.9

12H	4H	20.2	20.7	20.7	21.2	21.7	20.1	20.7	20.6	21.1	21.6
	6H	20.5	20.9	21.0	21.4	21.9	20.4	20.8	20.9	21.3	21.8
	8H	20.5	20.9	21.1	21.4	22.0	20.4	20.8	20.9	21.3	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1776.619 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)