



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20354.0

[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 REGRESS TRIM w/SOLITE

[LUMCAT] 6DS-L25-RGB/940-DMX-UNV-RW-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	2526
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	55.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
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	22061	25609	21984
55	16736	15976	16451
65	11486	10325	11228
75	5058	5479	4847
85	1877	1877	1877

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1795.488	1795.488	1795.488	1795.488	1795.488
5	1794.220	1792.952	1786.612	1786.612	1786.612
10	1779.004	1773.932	1772.664	1773.932	1767.592
15	1735.892	1739.696	1739.696	1738.428	1725.748
20	1654.740	1667.420	1690.244	1672.492	1647.132
25	1446.788	1506.384	1582.464	1522.868	1449.324
30	1098.088	1224.888	1368.172	1213.476	1057.512
35	628.928	774.748	1085.408	784.892	647.948
40	456.480	505.932	696.132	503.396	460.284
45	362.648	385.472	420.976	377.864	361.380
50	282.764	297.980	296.712	295.444	289.104
55	223.168	214.292	213.024	223.168	219.364
60	166.108	162.304	157.232	163.572	161.036
65	112.852	106.512	101.440	109.048	110.316
70	60.864	60.864	60.864	59.596	58.328
75	30.432	31.700	32.968	27.896	29.164
80	15.216	15.216	15.216	16.484	13.948
85	3.804	3.804	3.804	5.072	3.804
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fxt
0-20	659.37	N.A.	26.10
0-30	1339.68	N.A.	53.00
0-40	1867.59	N.A.	73.90
0-60	2375.92	N.A.	94.10
0-80	2519.68	N.A.	99.70
0-90	2526.11	N.A.	100.00
10-90	2355.81	N.A.	93.30
20-40	1208.22	N.A.	47.80
20-50	1517.49	N.A.	60.10
40-70	616.06	N.A.	24.40
60-80	143.77	N.A.	5.70
70-80	36.04	N.A.	1.40
80-90	6.43	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	2526.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.30
10-20	489.07
20-30	680.32
30-40	527.90
40-50	309.27
50-60	199.06
60-70	107.73
70-80	36.04
80-90	6.43
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	142	138	134	130	139	135	131	128	130	127	124	125	123	121	121	119	117	115
2	133	125	119	114	130	123	117	112	119	114	110	115	111	107	111	108	105	103
3	124	114	107	100	122	112	105	100	109	103	98	106	101	96	103	98	95	92
4	116	105	96	90	114	103	95	89	100	93	88	98	92	87	95	90	86	84
5	109	96	87	81	107	95	87	80	93	85	80	90	84	79	88	83	78	76
6	102	89	80	73	100	88	79	73	86	78	72	84	77	72	82	76	71	69
7	96	82	73	67	94	81	73	67	80	72	66	78	71	66	77	70	66	64
8	91	77	68	62	89	76	67	61	74	67	61	73	66	61	72	65	61	59
9	86	72	63	57	84	71	63	57	70	62	57	68	61	56	67	61	56	54
10	81	67	58	53	80	66	58	53	65	58	53	64	57	52	63	57	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

X=2H	Y=2H	18.5	19.8	18.9	20.1	20.4	18.6	19.9	19.0	20.2	20.5
	3H	19.3	20.4	19.7	20.7	21.1	19.3	20.4	19.7	20.8	21.1
	4H	19.4	20.4	19.8	20.8	21.2	19.4	20.5	19.8	20.8	21.2
	6H	19.5	20.4	19.9	20.8	21.2	19.5	20.4	19.9	20.8	21.2
	8H	19.4	20.3	19.9	20.7	21.1	19.5	20.3	19.9	20.7	21.1
	12H	19.4	20.3	19.8	20.6	21.1	19.4	20.3	19.8	20.6	21.1

UGR Viewed Endwise

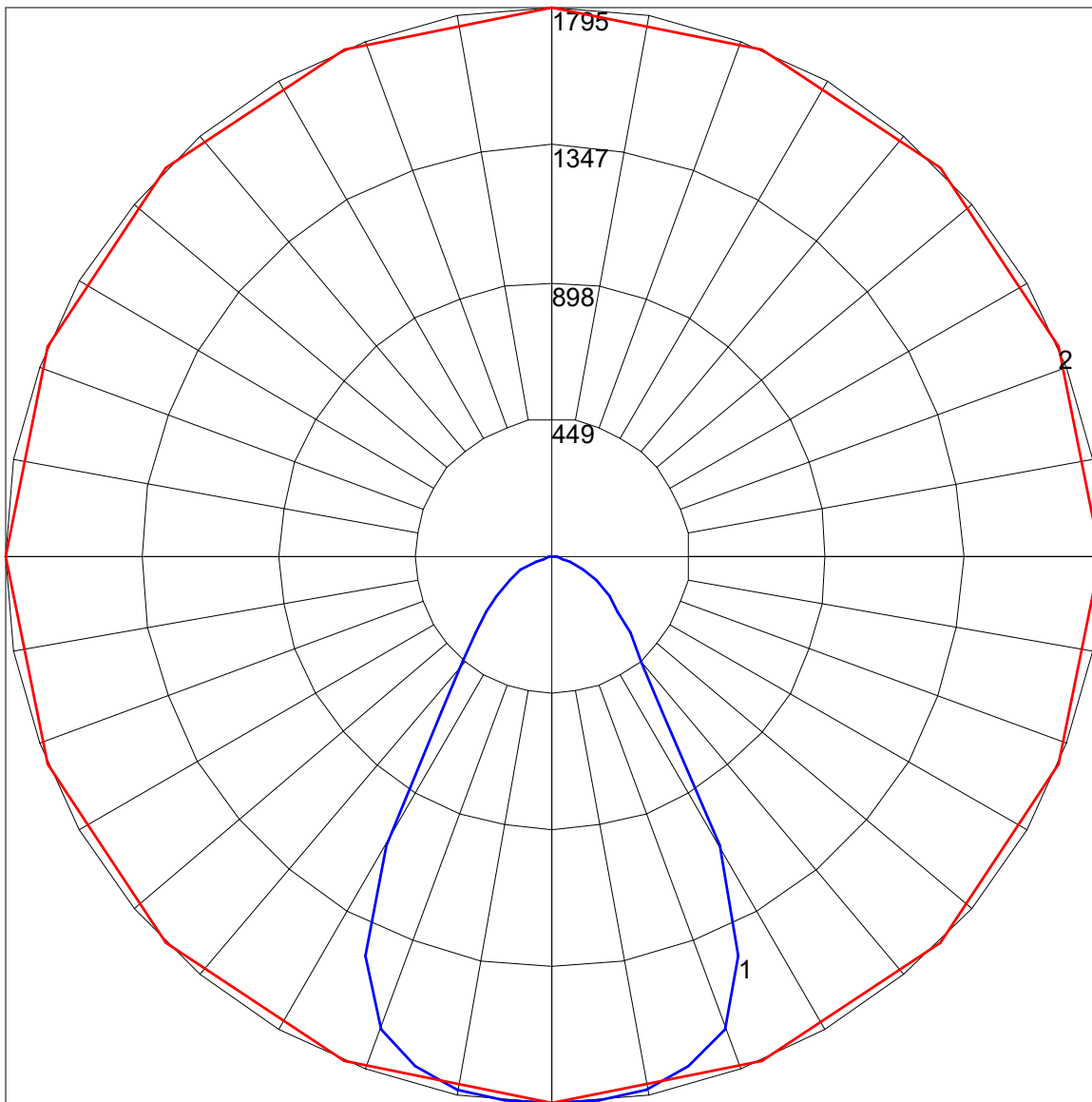
4H	2H	18.7	19.8	19.1	20.1	20.5	18.8	19.9	19.2	20.2	20.6
	3H	19.6	20.5	20.0	20.9	21.3	19.7	20.5	20.1	20.9	21.3
	4H	19.8	20.6	20.2	21.0	21.4	19.8	20.6	20.2	21.0	21.4
	6H	19.9	20.5	20.3	21.0	21.5	19.9	20.5	20.3	21.0	21.4
	8H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.3	20.9	21.4
	12H	19.9	20.4	20.3	20.9	21.3	19.8	20.4	20.3	20.9	21.3

8H	4H	19.8	20.4	20.3	20.9	21.3	19.8	20.4	20.3	20.9	21.3
	6H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	8H	19.9	20.4	20.5	20.9	21.4	19.9	20.4	20.5	20.9	21.4
	12H	19.9	20.3	20.4	20.8	21.4	19.9	20.3	20.5	20.8	21.4

12H	4H	19.8	20.3	20.3	20.8	21.3	19.8	20.3	20.3	20.8	21.3
	6H	19.9	20.3	20.4	20.8	21.3	19.9	20.3	20.4	20.8	21.3
	8H	19.9	20.3	20.4	20.8	21.4	19.9	20.3	20.4	20.8	21.4

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1795.488 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.)