



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L60-950-DIM-UNV-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

[ISSUEDATE] 07/11/2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6"SQ RECESSED LED DOWNLIGHT

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

[MORE] 0-10V DIMMING DRIVER

[LUMCAT] 6DS-L60-950-DIM-UNV-OW-OF-CS

[LAMPCAT] BRIDGELUX V13 COB LED

[_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	4927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	64.6
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	24151	37465	23532
55	3435	6107	3435
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>
0	5675.212	5675.212	5675.212	5675.212	5675.212
5	5634.493	5626.858	5598.864	5581.049	5575.959
10	5334.190	5354.550	5341.825	5303.651	5296.016
15	4837.927	4855.742	4848.107	4820.113	4802.298
20	4214.417	4209.328	4232.232	4204.238	4188.968
25	3377.133	3473.840	3504.380	3428.032	3326.234
30	2338.798	2438.051	2651.825	2450.775	2359.158
35	1389.536	1608.401	1906.159	1544.777	1356.452
40	799.111	878.004	1191.031	842.375	786.386
45	397.010	470.814	615.875	478.448	386.831
50	160.331	195.960	254.494	190.870	157.786
55	45.809	63.623	81.438	66.168	45.809
60	5.090	7.635	17.815	7.635	2.545
65	0.000	0.000	0.000	0.000	0.000
70	0.000	2.545	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1874.53	N.A.	38.00
0-30	3425.18	N.A.	69.50
0-40	4448.86	N.A.	90.30
0-60	4924.67	N.A.	99.90
0-80	4927.24	N.A.	100.00
0-90	4927.24	N.A.	100.00
10-90	4401.35	N.A.	89.30
20-40	2574.32	N.A.	52.20
20-50	2975.67	N.A.	60.40
40-70	478.22	N.A.	9.70
60-80	2.57	N.A.	0.10
70-80	0.17	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	4927.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	525.89
10-20	1348.64
20-30	1550.64
30-40	1023.68
40-50	401.35
50-60	74.47
60-70	2.40
70-80	0.17
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

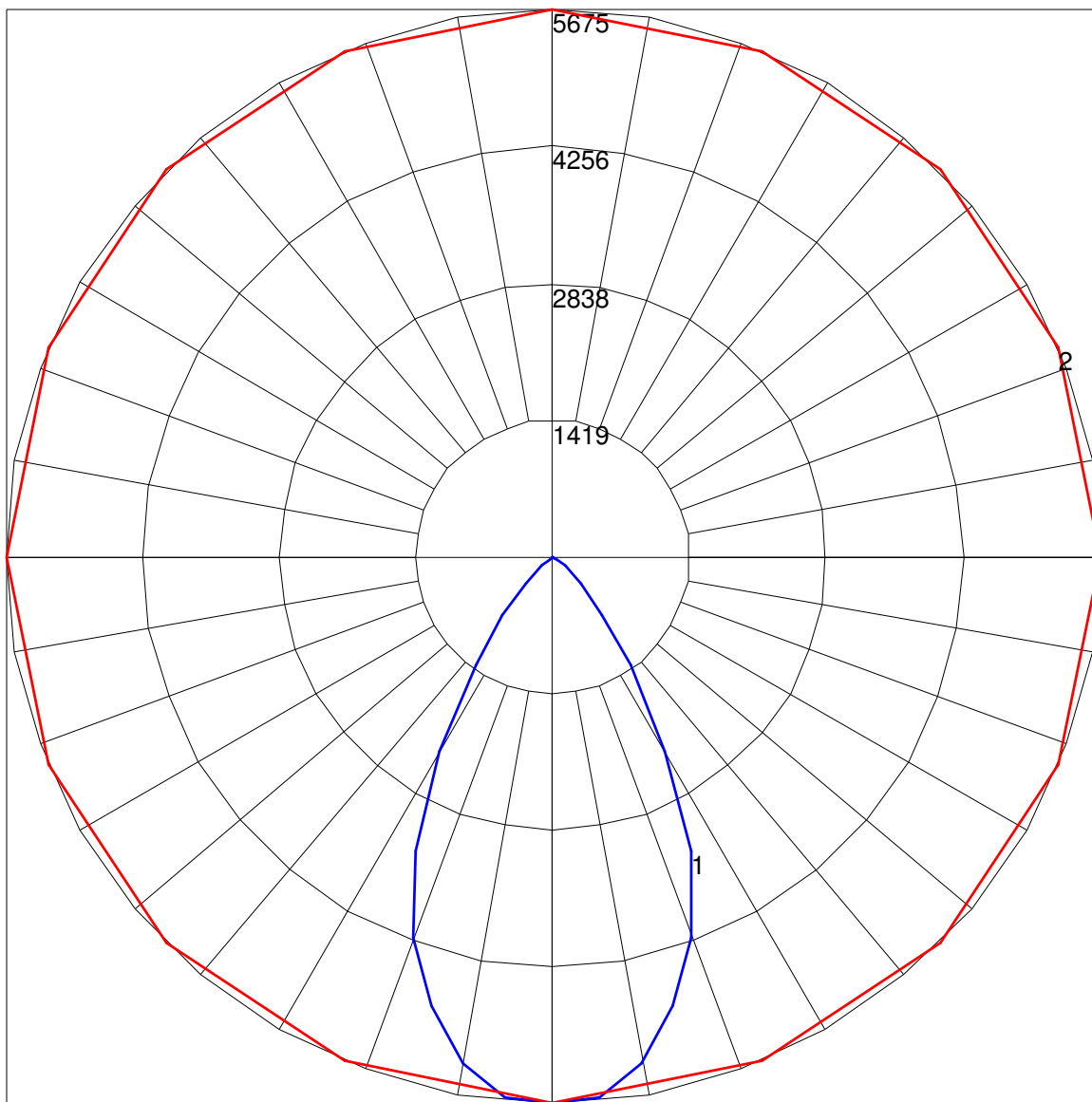
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UGR TABLE - CORRECTED

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	5.5	6.0	5.5	6.3	6.6	5.5	6.1	5.5	6.4	6.7
	3H	5.5	5.6	5.5	6.0	6.3	5.5	5.8	5.5	6.1	6.5
	4H	5.5	5.5	5.5	5.8	6.2	5.5	5.6	5.5	6.0	6.4
	6H	5.5	5.5	5.5	5.7	6.1	5.5	5.5	5.5	5.8	6.2
	8H	5.5	5.5	5.5	5.6	6.0	5.5	5.5	5.5	5.7	6.1
	12H	5.5	5.5	5.5	5.5	5.9	5.5	5.5	5.5	5.6	6.1
4H	2H	5.5	5.5	5.5	5.8	6.2	5.5	5.6	5.5	6.0	6.4
	3H	5.5	5.5	5.5	5.5	5.9	5.5	5.5	5.5	5.7	6.1
	4H	5.5	5.5	5.5	5.5	5.8	5.5	5.5	5.5	5.5	5.9
	6H	5.5	5.5	5.5	5.5	5.7	5.5	5.5	5.5	5.5	5.8
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.7
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.6
8H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.7
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
12H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.6
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Maximum UGR = 6.7

POLAR GRAPH



Maximum Candela = 5675.212 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.)