



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-940-DIM-UNV-OW-OF-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20687.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 02-22-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6"RND RECESSED LED DOWNLIGHT

[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 6DR-TL-L30-940-DIM-UNV-OW-OF-CS

[LAMPCAT] V13 BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2572
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	26.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 ft (Diameter)
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4764	4764	4764
55	1660	1660	1660
65	347	347	347
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2051.709
5	1937.589
10	2132.698
15	2129.017
20	2223.503
25	2432.110
30	2389.162
35	741.168
40	101.849
45	56.447
50	33.132
55	15.952
60	8.590
65	2.454
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	804.81	N.A.	31.30
0-30	1903.23	N.A.	74.00
0-40	2504.85	N.A.	97.40
0-60	2568.6	N.A.	99.90
0-80	2571.91	N.A.	100.00
0-90	2571.91	N.A.	100.00
10-90	2378.61	N.A.	92.50
20-40	1700.04	N.A.	66.10
20-50	1747.45	N.A.	67.90
40-70	67.06	N.A.	2.60
60-80	3.31	N.A.	0.10
70-80	0.00	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	2571.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	193.30
10-20	611.51
20-30	1098.42
30-40	601.61
40-50	47.41
50-60	16.35
60-70	3.31
70-80	0.00
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	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

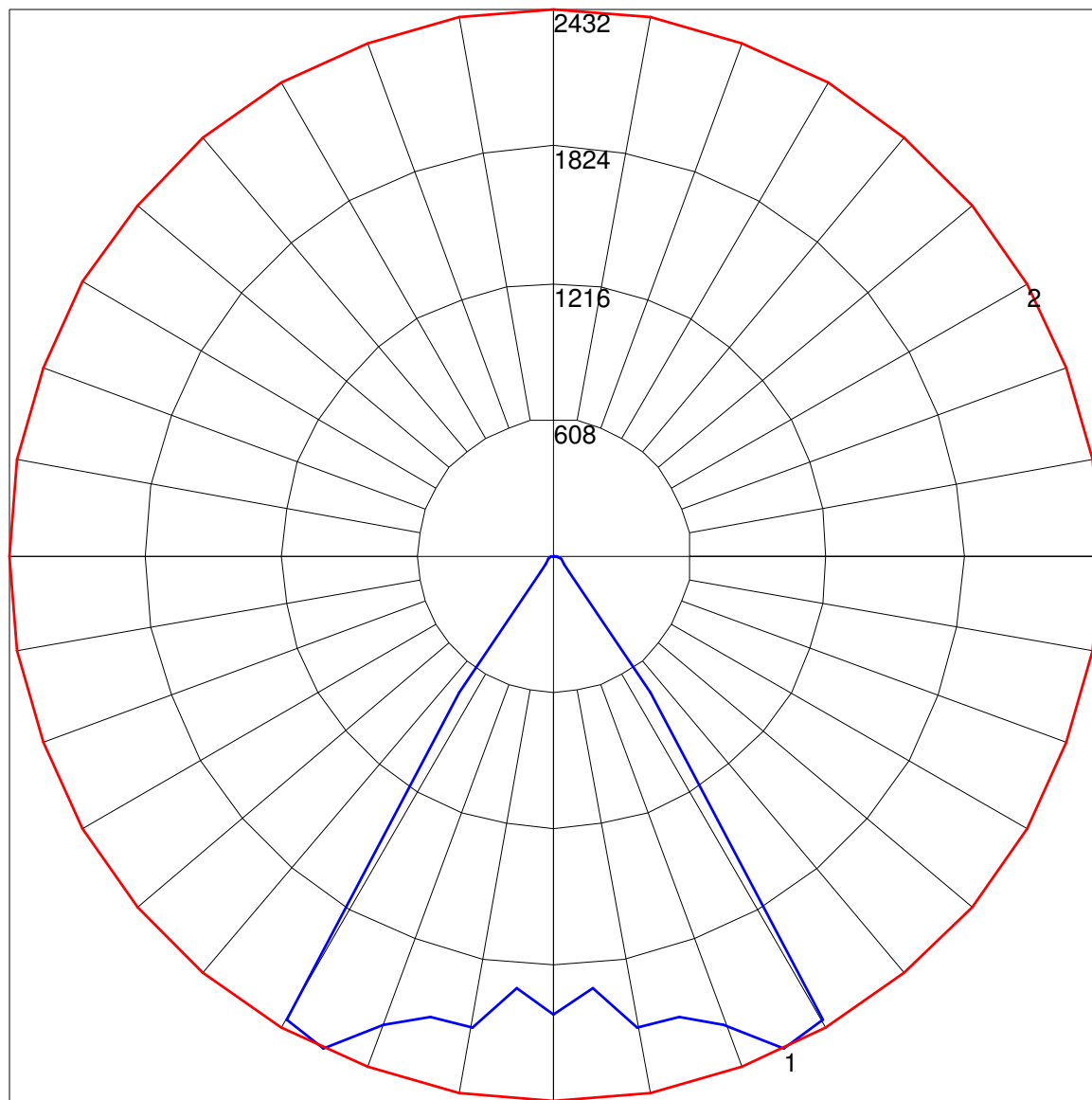
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**UGR TABLE - CORRECTED**

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	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	3H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	4H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	6H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	8H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	12H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
4H	2H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	3H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	4H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	6H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	8H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	12H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
8H	4H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	6H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	8H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	12H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
12H	4H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	6H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	8H	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

Maximum UGR = 3.3

POLAR GRAPH



Maximum Candela = 2432.11 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)