



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM-UNV-OW-OF-WH_.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] 01-17-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6" RND RECESSED LED DOWNLIGHT

[MORE] OPEN WHITE PAINTED ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 6DR-TL-L20-835-DIM-UNV-OW-OF-WH

[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	1769
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	19
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	3276	3276	3276
55	1142	1142	1142
65	238	238	238
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1411.149
5	1332.658
10	1466.852
15	1464.320
20	1529.307
25	1672.785
30	1643.246
35	509.769
40	70.051
45	38.823
50	22.788
55	10.972
60	5.908
65	1.688
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	553.54	N.A.	31.30
0-30	1309.03	N.A.	74.00
0-40	1722.81	N.A.	97.40
0-60	1766.66	N.A.	99.90
0-80	1768.94	N.A.	100.00
0-90	1768.94	N.A.	100.00
10-90	1635.99	N.A.	92.50
20-40	1169.27	N.A.	66.10
20-50	1201.88	N.A.	67.90
40-70	46.12	N.A.	2.60
60-80	2.27	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	1768.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.95
10-20	420.59
20-30	755.49
30-40	413.79
40-50	32.61
50-60	11.24
60-70	2.27
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

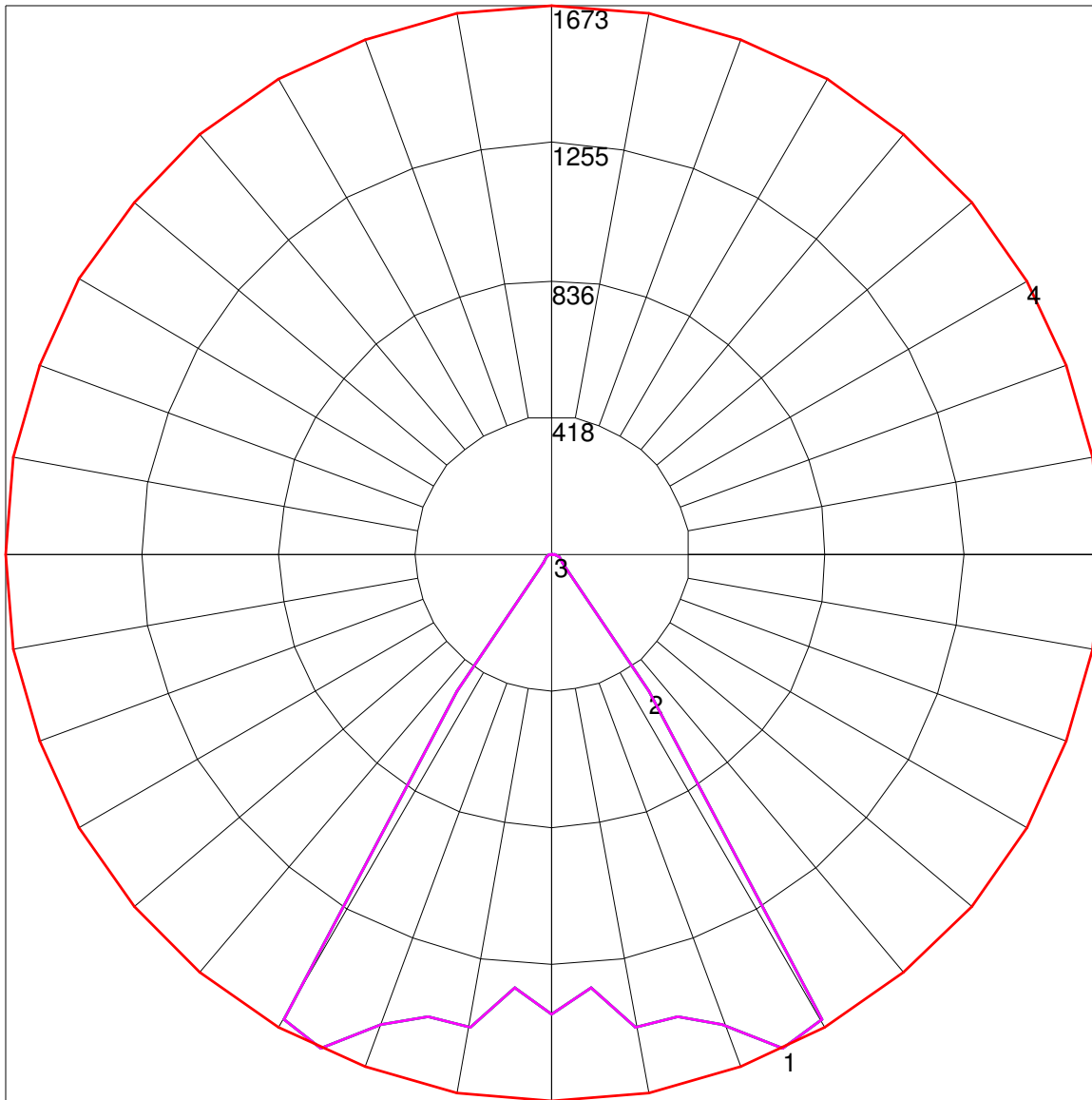
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UGR TABLE - CORRECTED

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	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	3H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	12H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4H	2H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	3H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	12H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
8H	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	12H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12H	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Maximum UGR = 2.0

POLAR GRAPH



Maximum Candela = 1672.785 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (5 - 185)

3 - Vertical Plane Through Horizontal Angles (10 - 190)

4 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)