



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-835-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] 11-JAN-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6"RND RECESSED LED DOWNLIGHT

[MORE] OPEN WHITE PAINTED REFLECTOR (WIDE)

[LUMCAT] 6DR-TL-L40-835-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	3644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	36.5
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	6749	6749	6749
55	2351	2351	2351
65	491	491	491
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2906.617
5	2744.945
10	3021.351
15	3016.136
20	3149.994
25	3445.523
30	3384.678
35	1049.998
40	144.288
45	79.967
50	46.937
55	22.599
60	12.169
65	3.477
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	1140.16	N.A.	31.30
0-30	2696.27	N.A.	74.00
0-40	3548.57	N.A.	97.40
0-60	3638.89	N.A.	99.90
0-80	3643.57	N.A.	100.00
0-90	3643.57	N.A.	100.00
10-90	3369.73	N.A.	92.50
20-40	2408.41	N.A.	66.10
20-50	2475.58	N.A.	67.90
40-70	95.01	N.A.	2.60
60-80	4.68	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	3643.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.84
10-20	866.32
20-30	1556.12
30-40	852.29
40-50	67.17
50-60	23.16
60-70	4.68
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	78	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	54	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

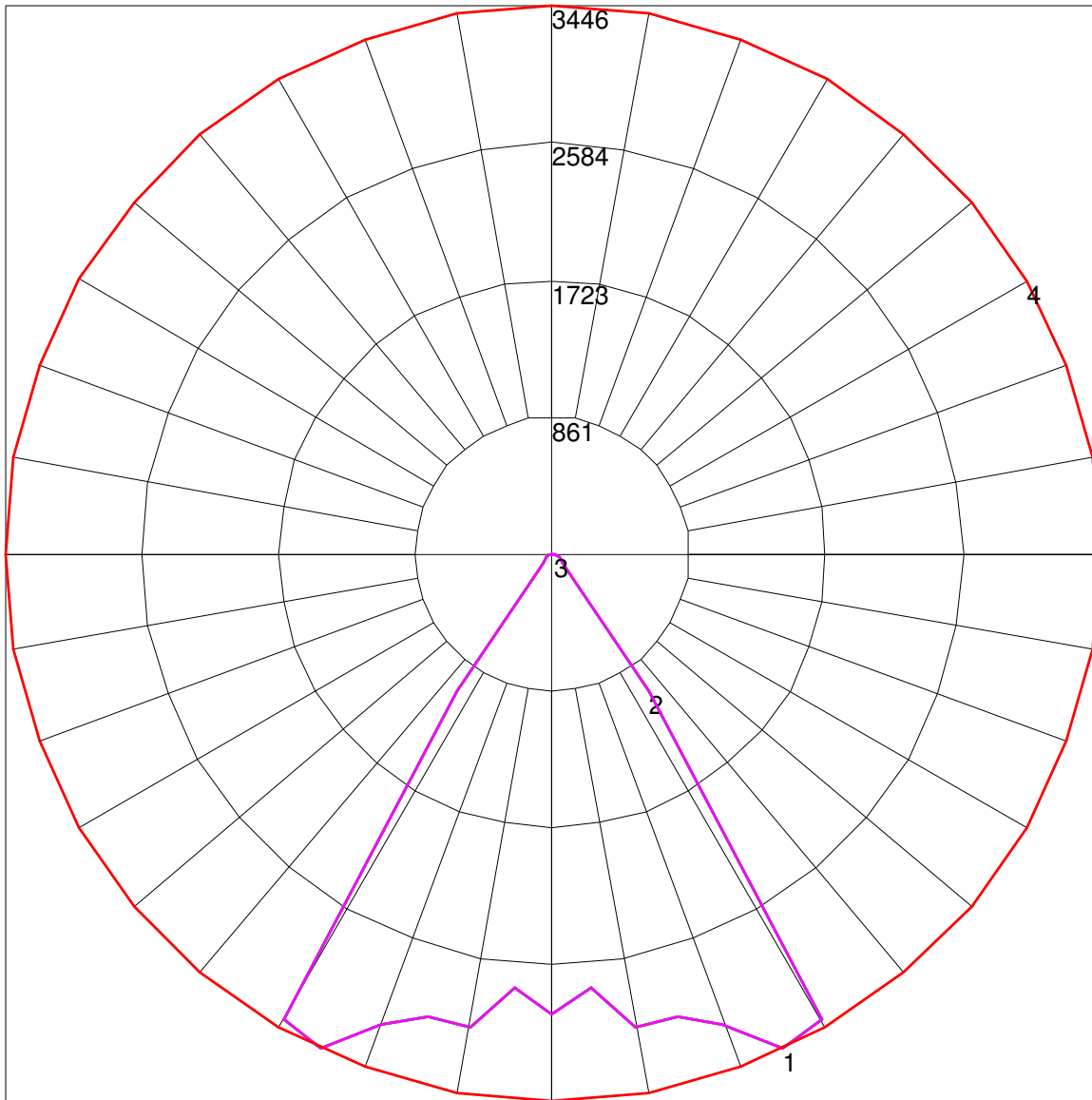
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UGR TABLE - CORRECTED

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	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	3H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	12H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
4H	2H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	3H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	12H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
8H	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	12H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
12H	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5

Maximum UGR = 4.5

POLAR GRAPH



Maximum Candela = 3445.523 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.)