



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-835-(L35)-DIM-UNV-OW-OF-SG\_.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] 11-03-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6"RND RECESSED LED DOWNLIGHT

[MORE] OPEN SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 6DR-TL-L40-835-(L35)-DIM-UNV-OW-OF-SG

[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	3231
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	32.7
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	5984	5984	5984
55	2085	2085	2085
65	435	435	435
75	0	0	0
85	0	0	0

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## CANDELA TABULATION

	<u>0</u>
0	2577.400
5	2434.040
10	2679.139
15	2674.515
20	2793.211
25	3055.267
30	3001.314
35	931.070
40	127.945
45	70.909
50	41.621
55	20.040
60	10.791
65	3.083
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L40-835-(L35)-DIM-UNV-OW-OF-SG\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1011.02	N.A.	31.30
0-30	2390.88	N.A.	74.00
0-40	3146.64	N.A.	97.40
0-60	3226.73	N.A.	99.90
0-80	3230.88	N.A.	100.00
0-90	3230.88	N.A.	100.00
10-90	2988.06	N.A.	92.50
20-40	2135.62	N.A.	66.10
20-50	2195.18	N.A.	67.90
40-70	84.24	N.A.	2.60
60-80	4.15	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	3230.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	242.82
10-20	768.19
20-30	1379.86
30-40	755.76
40-50	59.56
50-60	20.53
60-70	4.15
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

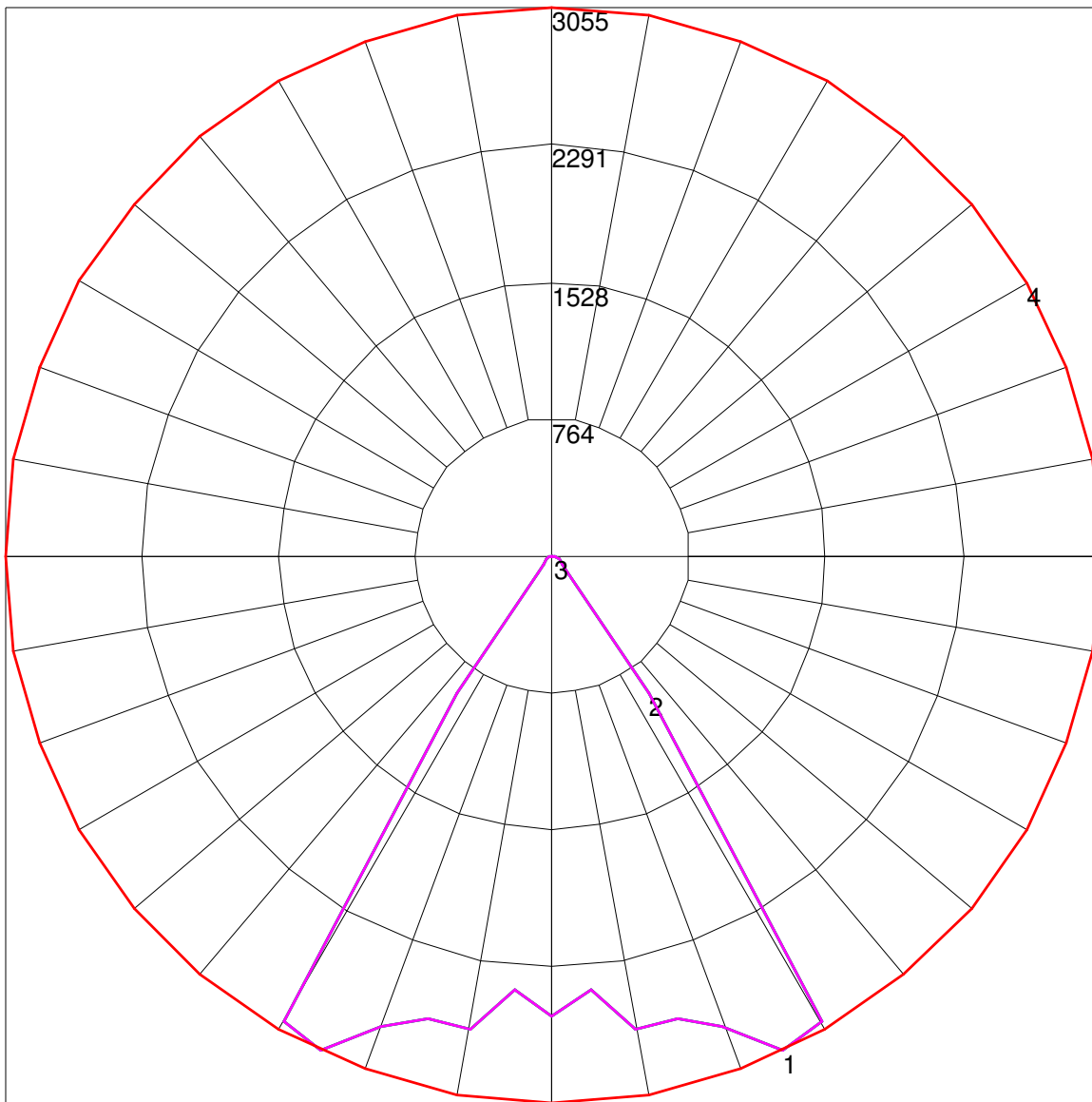
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**UGR TABLE - CORRECTED**

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	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	3H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	4H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	6H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	8H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	12H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
4H	2H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	3H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	4H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	6H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	8H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	12H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
8H	4H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	6H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	8H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	12H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
12H	4H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	6H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	8H	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

Maximum UGR = 4.1

POLAR GRAPH



Maximum Candela = 3055.267 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.)