

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-840-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

[ISSUE DATE] 07/10/2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6" RND RECESSED LED CAST HOUSING DOWNLIGHT

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

[LUMCAT] 6DR-TL-L30-840-DIM-UNV-OW-OF-SG

[\_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	2845
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	27
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	5270	5270	5270
55	1836	1836	1836
65	383	383	383
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2269.653
5	2143.410
10	2359.245
15	2355.172
20	2459.696
25	2690.462
30	2642.951
35	819.899
40	112.668
45	62.443
50	36.651
55	17.647
60	9.502
65	2.715
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	890.30	N.A.	31.30
0-30	2105.4	N.A.	74.00
0-40	2770.92	N.A.	97.40
0-60	2841.45	N.A.	99.90
0-80	2845.11	N.A.	100.00
0-90	2845.11	N.A.	100.00
10-90	2631.28	N.A.	92.50
20-40	1880.63	N.A.	66.10
20-50	1933.07	N.A.	67.90
40-70	74.19	N.A.	2.60
60-80	3.66	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	2845.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	213.83
10-20	676.47
20-30	1215.1
30-40	665.52
40-50	52.45
50-60	18.08
60-70	3.66
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	79	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

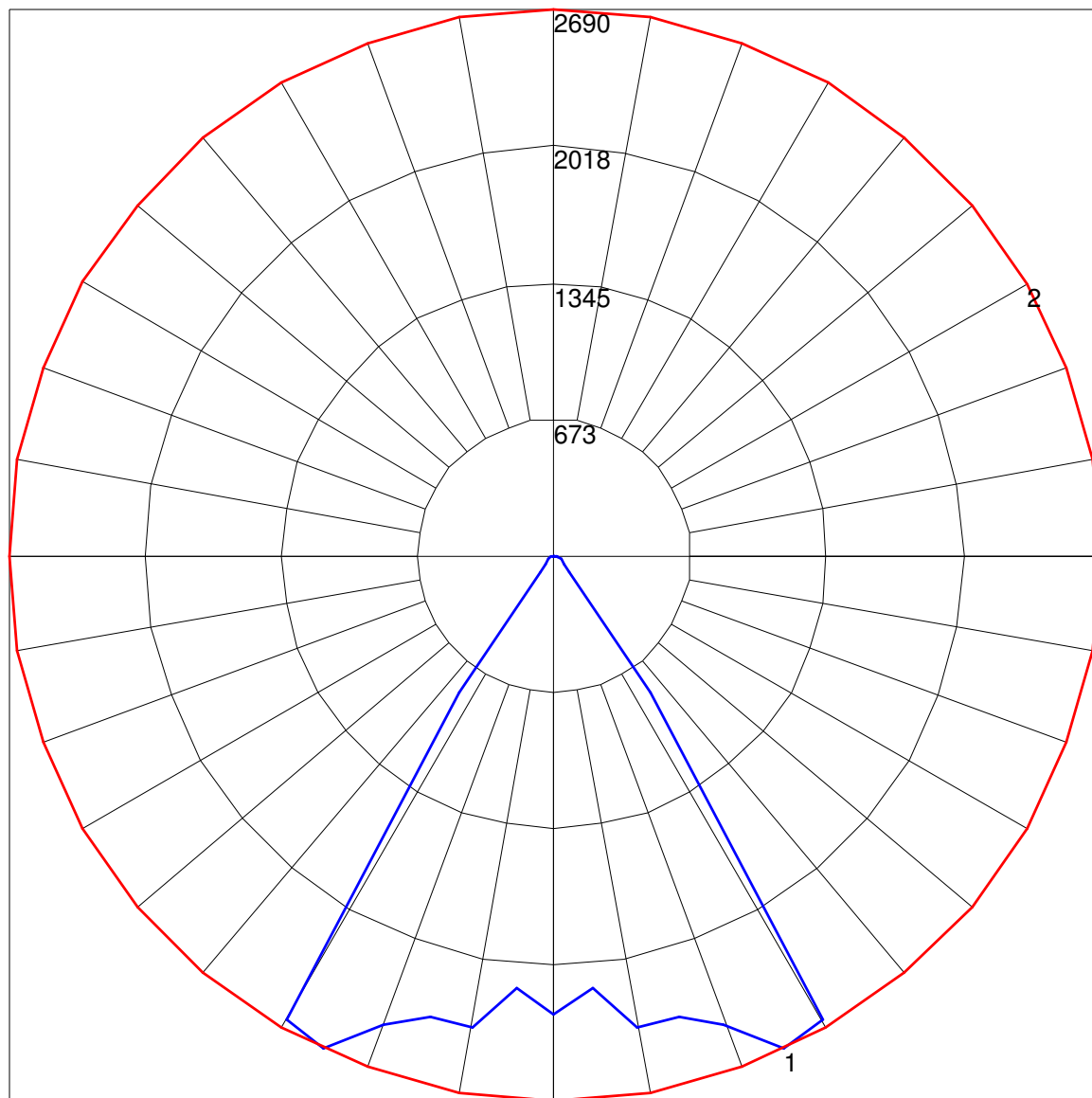
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**UGR TABLE - CORRECTED**

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	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	3H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	4H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	6H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	8H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	12H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
4H	2H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	3H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	4H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	6H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	8H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	12H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
8H	4H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	6H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	8H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	12H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
12H	4H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	6H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	8H	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

Maximum UGR = 3.6

POLAR GRAPH



Maximum Candela = 2690.462 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.)