



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-835-DIM-UNV-OW-OF-SPC-TD\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20686.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC

[ISSUEDATE] 03/24/2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6"RND RECESSED CAST HOUSING DOWNLIGHT

[MORE] OPEN SEMI-SPEC SPUN ALUM REFL w/DOMED DIFF TOP LENS(WIDE)

[LUMCAT] 6DR-TL-L30-835-DIM-UNV-OW-OF-SPC-TD

[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	2341
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
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)	1.08
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	28638	28638	28638
55	3134	3134	3134
65	672	672	672
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1538.078
5	1590.404
10	1704.571
15	1756.897
20	1772.753
25	1726.770
30	1473.066
35	897.476
40	545.463
45	339.328
50	179.178
55	30.127
60	9.514
65	4.757
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	651.50	N.A.	27.80
0-30	1423.47	N.A.	60.80
0-40	2013.3	N.A.	86.00
0-60	2336.57	N.A.	99.80
0-80	2341.24	N.A.	100.00
0-90	2341.24	N.A.	100.00
10-90	2185.97	N.A.	93.40
20-40	1361.8	N.A.	58.20
20-50	1630.4	N.A.	69.60
40-70	327.94	N.A.	14.00
60-80	4.67	N.A.	0.20
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	2341.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	155.27
10-20	496.22
20-30	771.98
30-40	589.82
40-50	268.60
50-60	54.67
60-70	4.67
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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	71
5	90	80	74	69	88	80	74	69	78	72	68	76	71	68	74	70	67	66
6	84	75	68	64	83	74	68	63	72	67	63	71	66	62	70	65	62	60
7	80	70	63	58	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	56	53	52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	49	57	53	49	48
10	67	57	51	46	66	56	50	46	56	50	46	55	50	46	54	49	46	44

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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

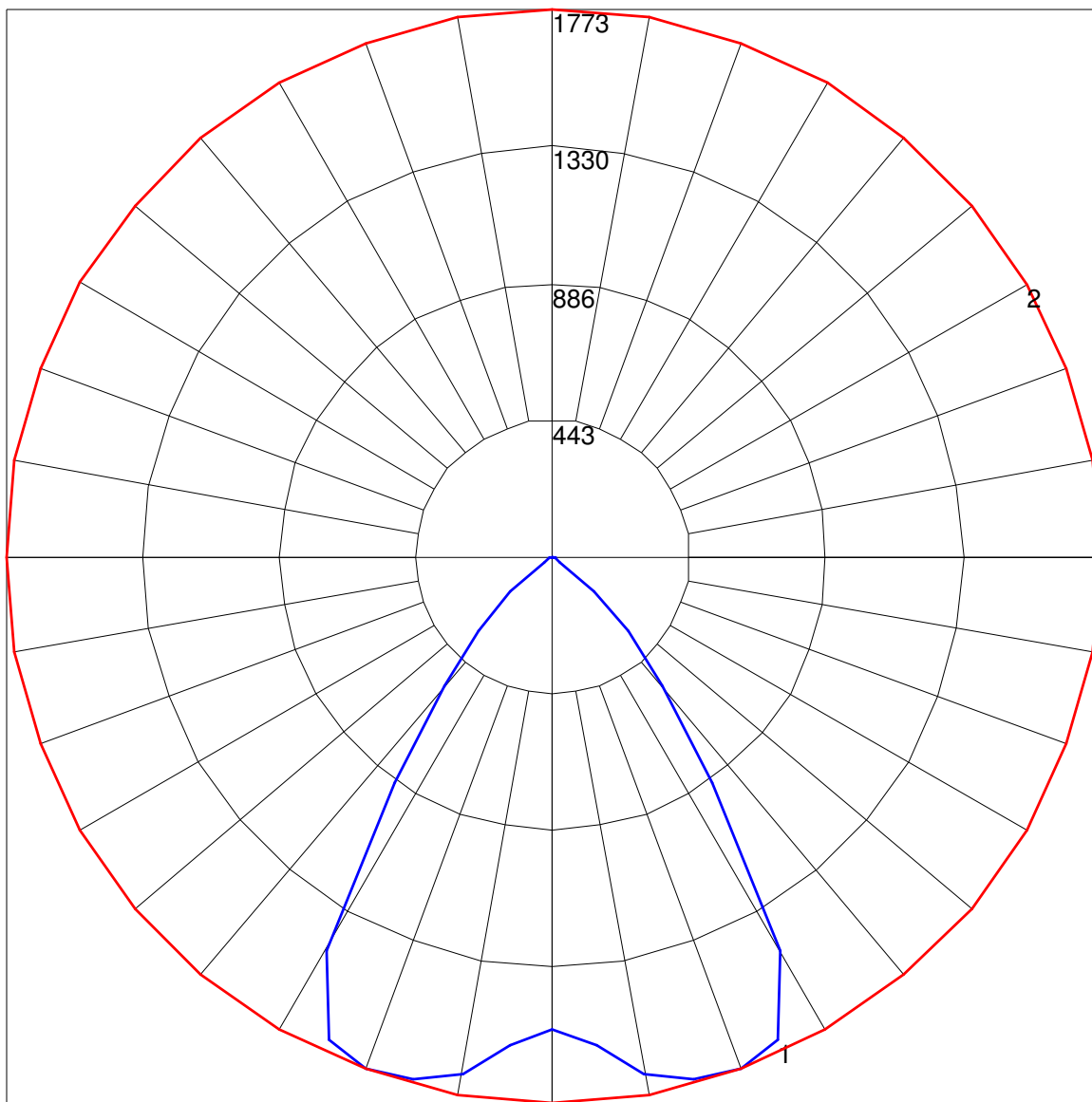
X=2H	Y=2H	4.3	5.4	4.6	5.7	6.0	4.3	5.4	4.6	5.7	6.0
	3H	4.1	5.1	4.5	5.4	5.8	4.1	5.1	4.5	5.4	5.8
	4H	4.0	4.9	4.4	5.3	5.6	4.0	4.9	4.4	5.3	5.6
	6H	3.9	4.7	4.4	5.1	5.5	3.9	4.7	4.4	5.1	5.5
	8H	3.9	4.6	4.3	5.0	5.4	3.9	4.6	4.3	5.0	5.4
	12H	3.8	4.5	4.3	4.9	5.4	3.8	4.5	4.3	4.9	5.4

### UGR Viewed Endwise

4H	2H	4.1	5.0	4.5	5.3	5.7	4.1	5.0	4.5	5.3	5.7
	3H	4.0	4.7	4.4	5.1	5.5	4.0	4.7	4.4	5.1	5.5
	4H	3.9	4.5	4.3	4.9	5.3	3.9	4.5	4.3	4.9	5.3
	6H	3.7	4.3	4.2	4.7	5.2	3.7	4.3	4.2	4.7	5.2
	8H	3.7	4.2	4.1	4.6	5.1	3.7	4.2	4.1	4.6	5.1
	12H	3.6	4.0	4.1	4.5	5.0	3.6	4.0	4.1	4.5	5.0
8H	4H	3.7	4.2	4.1	4.6	5.1	3.7	4.2	4.1	4.6	5.1
	6H	3.5	3.9	4.0	4.4	4.9	3.5	3.9	4.0	4.4	4.9
	8H	3.5	3.8	4.0	4.4	4.8	3.5	3.8	4.0	4.4	4.8
	12H	3.4	3.7	3.9	4.2	4.8	3.4	3.7	3.9	4.2	4.8
12H	4H	3.6	4.0	4.1	4.5	5.0	3.6	4.0	4.1	4.5	5.0
	6H	3.5	3.8	4.0	4.3	4.9	3.5	3.8	4.0	4.3	4.9
	8H	3.4	3.7	3.9	4.2	4.8	3.4	3.7	3.9	4.2	4.8

Maximum UGR = 6.0

POLAR GRAPH



Maximum Candela = 1772.753 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)