



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L30-840-XXX-DIM-UNV-OW-CS-XX\_.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] 2-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8" ROUND SURFACE CYLINDER

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

[LUMCAT] 8CR-TL-L30-840-xxx-DIM-UNV-OW-CS-xx

[LAMPCAT] V13 BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[\_SEARCH\_MOUNTING] Surface

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	5727	5727	5727
55	1995	1995	1995
65	417	417	417
75	0	0	0
85	0	0	0

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 8CR-TL-L30-840-XXX-DIM-UNV-OW-CS-XX\_.IES

CANDELA TABULATION

	<u>0</u>
0	2466.519
5	2329.327
10	2563.882
15	2559.456
20	2673.046
25	2923.829
30	2872.197
35	891.015
40	122.441
45	67.859
50	39.830
55	19.177
60	10.326
65	2.950
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L30-840-XXX-DIM-UNV-OW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	967.52	N.A.	31.30
0-30	2288.02	N.A.	74.00
0-40	3011.27	N.A.	97.40
0-60	3087.92	N.A.	99.90
0-80	3091.89	N.A.	100.00
0-90	3091.89	N.A.	100.00
10-90	2859.51	N.A.	92.50
20-40	2043.75	N.A.	66.10
20-50	2100.74	N.A.	67.90
40-70	80.62	N.A.	2.60
60-80	3.97	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	3091.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	232.38
10-20	735.14
20-30	1320.5
30-40	723.25
40-50	57.00
50-60	19.65
60-70	3.97
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L30-840-XXX-DIM-UNV-OW-CS-XX\_.IES

## 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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L30-840-XXX-DIM-UNV-OW-CS-XX\_.IES

## 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

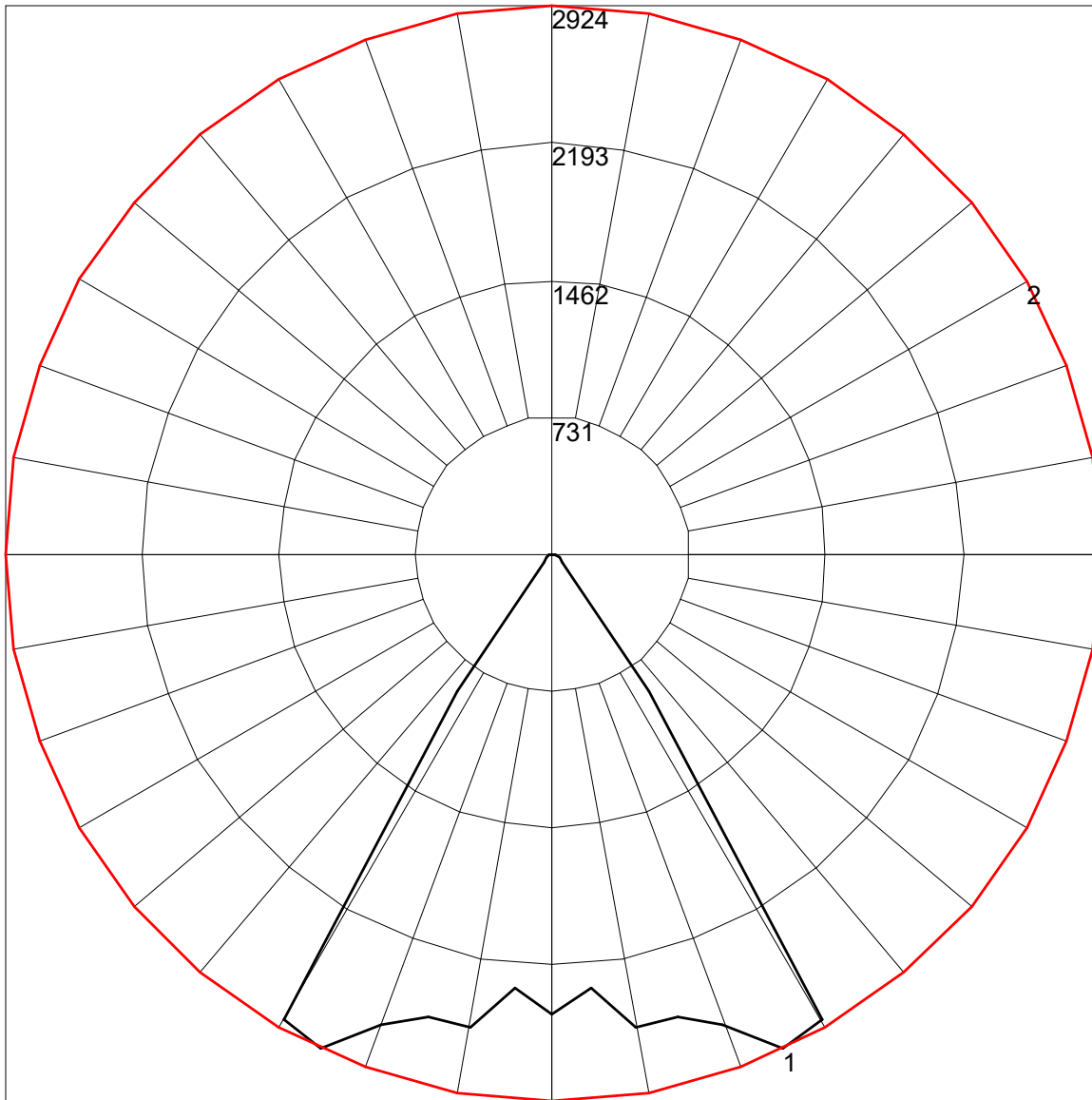
X=2H	Y=2H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	3H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9

### UGR Viewed Endwise

4H	2H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	3H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
8H	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
12H	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9

Maximum UGR = 3.9

POLAR GRAPH



Maximum Candela = 2923.829 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)