



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L30-830-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

[ISSUEDATE] 2-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1 BRIDGELUX V13 LED 8" ROUND SURFACE CYLINDER

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

[LUMCAT] 8CR-TL-L30-830-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	2939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	5444	5444	5444
55	1897	1897	1897
65	396	396	396
75	0	0	0
85	0	0	0

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 8CR-TL-L30-830-XXX-DIM-UNV-OW-CS-XX\_.IES

CANDELA TABULATION

	<u>0</u>
0	2344.868
5	2214.442
10	2437.429
15	2433.221
20	2541.209
25	2779.622
30	2730.537
35	847.070
40	116.402
45	64.512
50	37.866
55	18.232
60	9.817
65	2.805
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L30-830-XXX-DIM-UNV-OW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	919.80	N.A.	31.30
0-30	2175.18	N.A.	74.00
0-40	2862.75	N.A.	97.40
0-60	2935.62	N.A.	99.90
0-80	2939.4	N.A.	100.00
0-90	2939.4	N.A.	100.00
10-90	2718.48	N.A.	92.50
20-40	1942.95	N.A.	66.10
20-50	1997.13	N.A.	67.90
40-70	76.64	N.A.	2.60
60-80	3.78	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	2939.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	220.92
10-20	698.89
20-30	1255.37
30-40	687.58
40-50	54.18
50-60	18.68
60-70	3.78
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-L30-830-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	101	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	58	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-L30-830-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

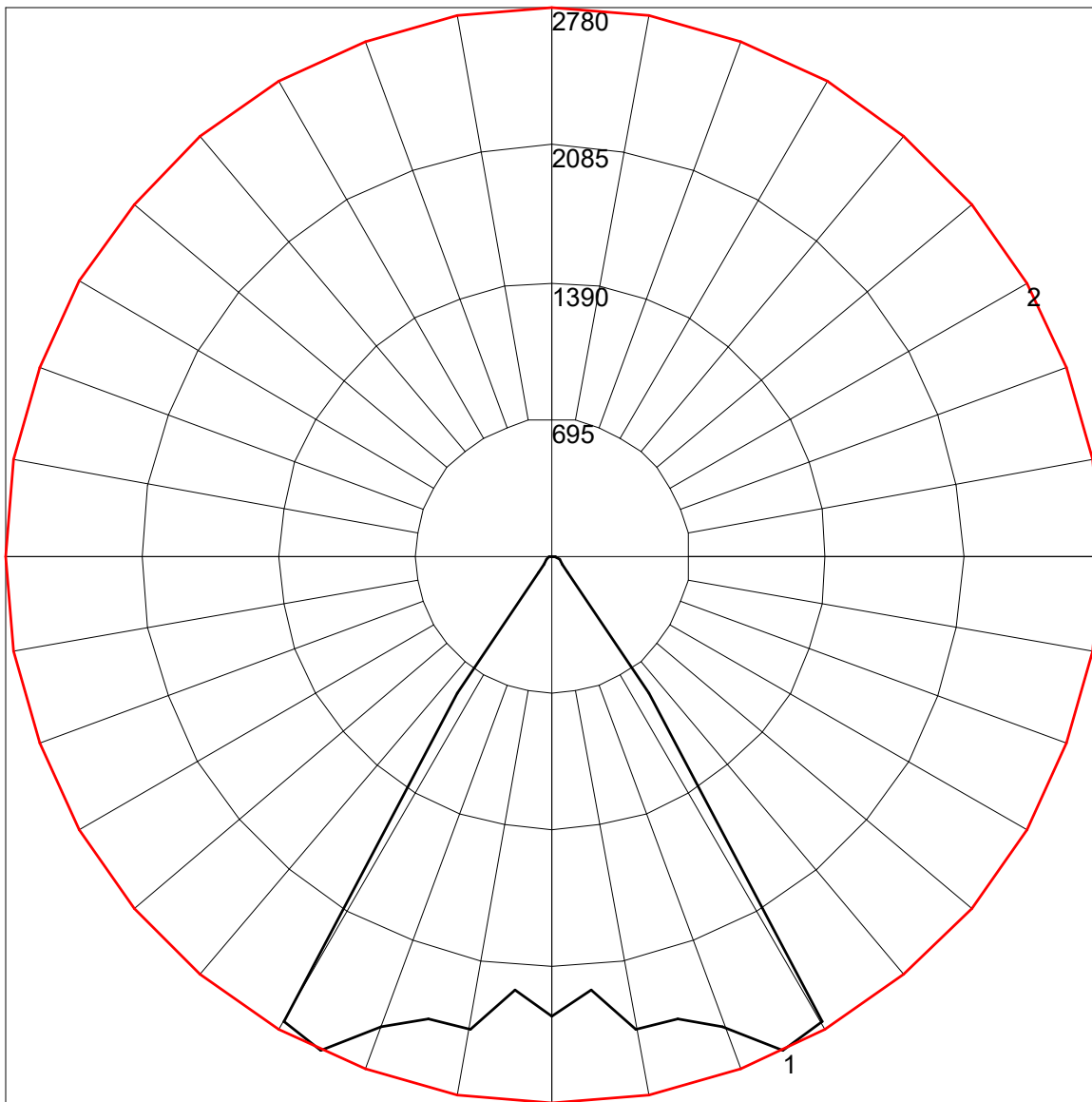
X=2H	Y=2H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	3H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	12H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7

### UGR Viewed Endwise

4H	2H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	3H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	12H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
8H	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	12H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
12H	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7

Maximum UGR = 3.7

POLAR GRAPH



Maximum Candela = 2779.622 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.)