



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-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. 20685.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 26-JAN-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1 BRIDGELUX V13 LED 6" ROUND SURFACE CYLINDER

[MORE] OPEN SATIN GLOW SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 6CR-TL-L30-830-xxx-DIM-UNV-OW-CS-xx

[LAMPCAT] V13 BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[\_SEARCH\_MOUNTING] Surface

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2866
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.37 ft (Diameter)
Luminous Width (90-270)	0.37 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	8691	8691	8691
55	2678	2678	2678
65	330	330	330
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2459.678
5	2533.060
10	2609.161
15	2663.518
20	2781.746
25	3031.791
30	2375.424
35	417.194
40	108.715
45	59.793
50	31.256
55	14.948
60	6.795
65	1.359
70	1.359
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6CR-TL-L30-830-XXX-DIM-UNV-OW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1005.18	N.A.	35.10
0-30	2299.2	N.A.	80.20
0-40	2798.17	N.A.	97.60
0-60	2862.85	N.A.	99.90
0-80	2865.87	N.A.	100.00
0-90	2865.87	N.A.	100.00
10-90	2622.23	N.A.	91.50
20-40	1793.00	N.A.	62.60
20-50	1842.6	N.A.	64.30
40-70	67.34	N.A.	2.30
60-80	3.03	N.A.	0.10
70-80	0.36	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	2865.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	243.64
10-20	761.54
20-30	1294.02
30-40	498.98
40-50	49.60
50-60	15.07
60-70	2.67
70-80	0.36
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	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	76	67	61	57	75	66	61	57	66	60	57	65	60	57	64	60	57	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

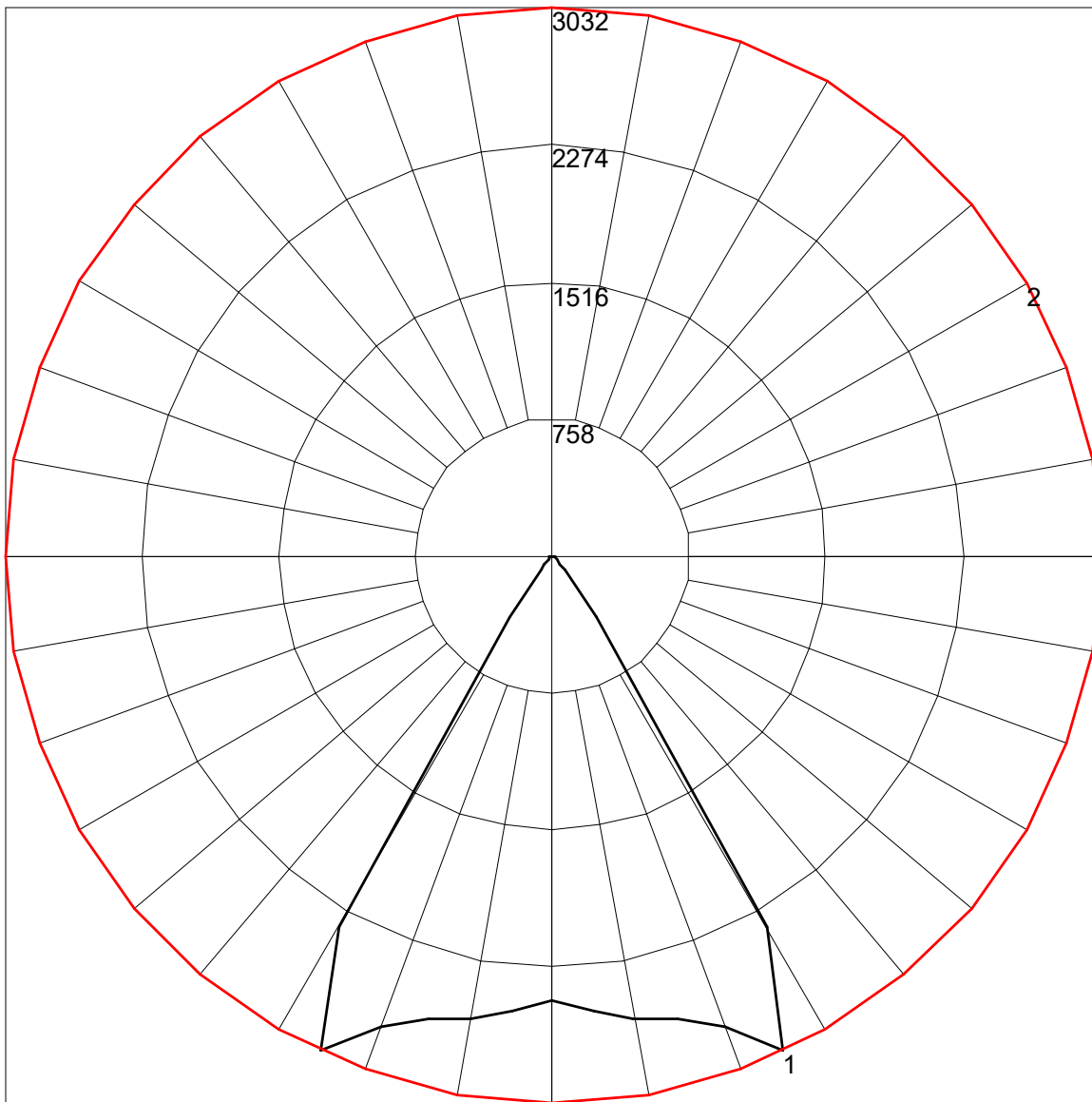
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**UGR TABLE - CORRECTED**

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	3.7	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	3.7
	4H	3.7	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	3.7
	8H	3.7	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	3.7
4H	2H	3.7	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	3.7
	4H	3.7	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	3.7
	8H	3.7	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	3.7
8H	4H	3.7	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	3.7
	8H	3.7	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	3.7
12H	4H	3.7	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	3.7
	8H	3.7	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 = 3031.791 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.)