



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L20-835-XXX-DIM-UNV-OW-WH-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 WHITE ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 6CR-TL-L20-835-xxx-DIM-UNV-OW-WH-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	1784
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	19.8
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	5411	5411	5411
55	1668	1668	1668
65	206	206	206
75	0	0	0
85	0	0	0

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## CANDELA TABULATION

	<u>0</u>
0	1531.463
5	1577.153
10	1624.535
15	1658.379
20	1731.991
25	1887.676
30	1479.004
35	259.756
40	67.689
45	37.229
50	19.461
55	9.307
60	4.231
65	0.846
70	0.846
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6CR-TL-L20-835-XXX-DIM-UNV-OW-WH-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	625.85	N.A.	35.10
0-30	1431.54	N.A.	80.20
0-40	1742.22	N.A.	97.60
0-60	1782.49	N.A.	99.90
0-80	1784.37	N.A.	100.00
0-90	1784.37	N.A.	100.00
10-90	1632.67	N.A.	91.50
20-40	1116.37	N.A.	62.60
20-50	1147.25	N.A.	64.30
40-70	41.93	N.A.	2.30
60-80	1.88	N.A.	0.10
70-80	0.22	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	1784.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	151.70
10-20	474.15
20-30	805.69
30-40	310.68
40-50	30.88
50-60	9.38
60-70	1.66
70-80	0.22
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	99	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	88	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

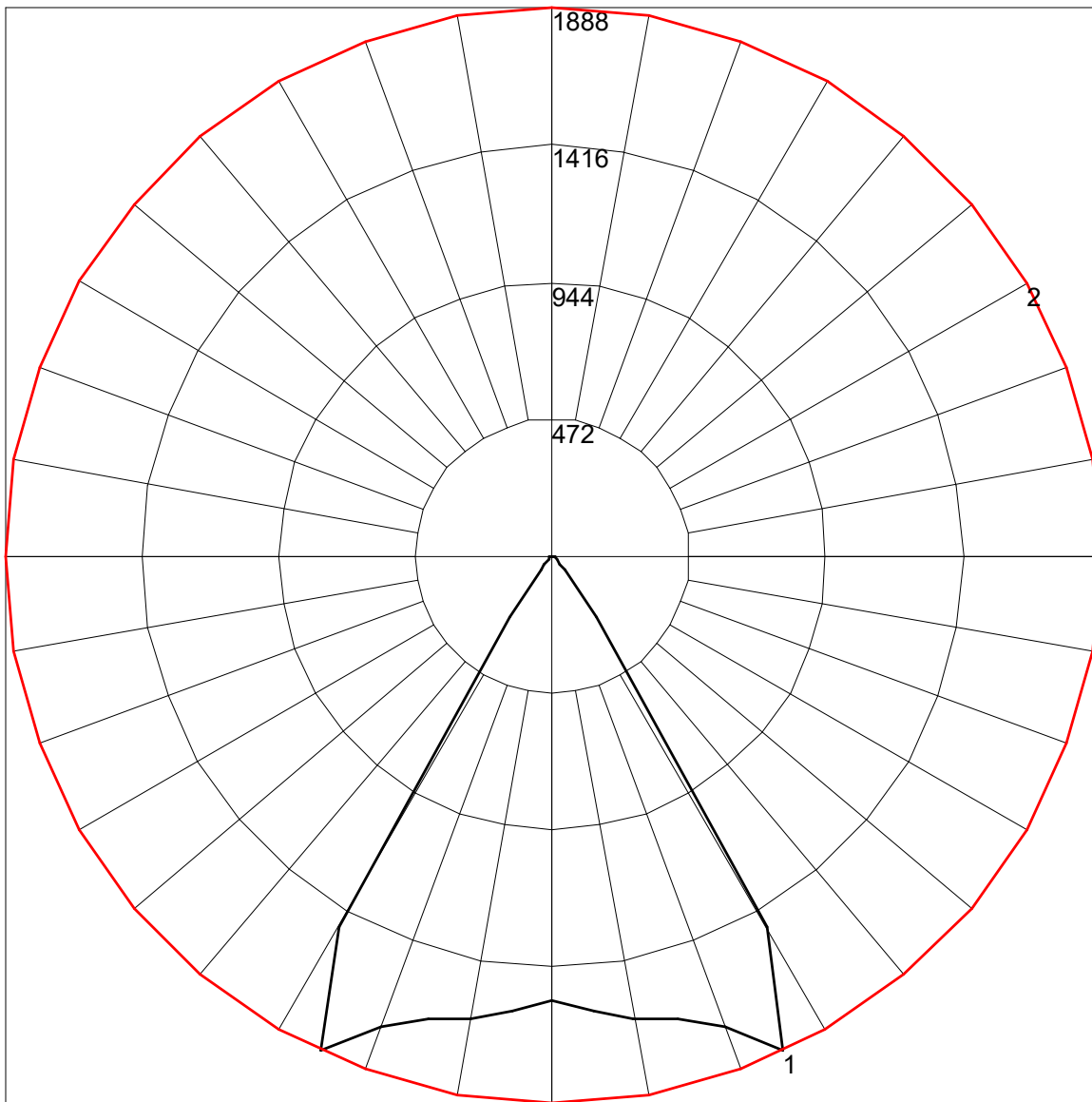
X=2H	Y=2H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	3H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	12H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

### UGR Viewed Endwise

4H	2H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	3H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	12H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
8H	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	12H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12H	4H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8H	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Maximum UGR = 2.0

POLAR GRAPH



Maximum Candela = 1887.676 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.)