



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-P16-835-XXX-POE-RW-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20733.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 29-JAN-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8" DIA. SURFACE CYLINDER

[LUMCAT] 8CR-TL-P16-835-xxx-POE x-RW-CS-xx

[LAMPCAT] BRIDGELUX V13 BXRE-35e2000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1301
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	12.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.80
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	14537	14537	14537
55	9966	9966	9966
65	3847	3847	3847
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1987.390
5	1979.315
10	1201.406
15	890.961
20	881.091
25	873.913
30	716.896
35	286.220
40	201.879
45	175.859
50	141.764
55	97.799
60	59.218
65	27.814
70	8.972
75	0.000
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-P16-835-XXX-POE-RW-CS-XX_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	431.36	N.A.	33.20
0-30	816.75	N.A.	62.80
0-40	1045.9	N.A.	80.40
0-60	1268.41	N.A.	97.50
0-80	1301.22	N.A.	100.00
0-90	1301.22	N.A.	100.00
10-90	1140.02	N.A.	87.60
20-40	614.54	N.A.	47.20
20-50	748.66	N.A.	57.50
40-70	252.98	N.A.	19.40
60-80	32.82	N.A.	2.50
70-80	2.35	N.A.	0.20
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	1301.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.21
10-20	270.16
20-30	385.39
30-40	229.15
40-50	134.12
50-60	88.38
60-70	30.47
70-80	2.35
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	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	84	98	92	87	83	89	85	81	87	83	80	85	82	79	77
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61
7	80	70	64	59	79	69	63	59	68	63	58	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	55	63	58	54	62	57	54	53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

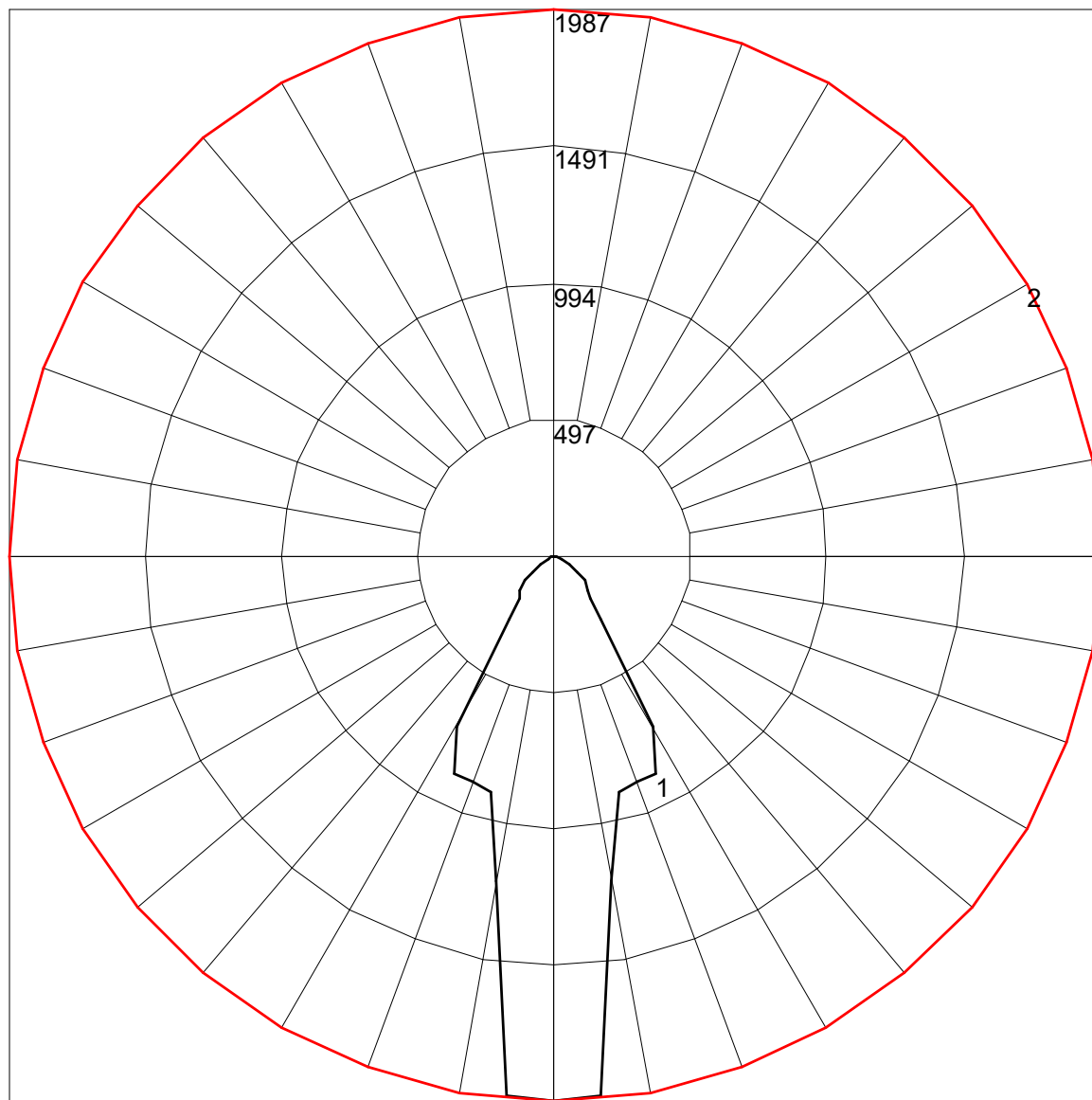
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UGR TABLE - CORRECTED

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	15.8	17.0	16.2	17.3	17.6	15.8	17.0	16.2	17.3	17.6
	3H	15.9	16.9	16.2	17.2	17.6	15.9	16.9	16.2	17.2	17.6
	4H	15.8	16.7	16.2	17.1	17.4	15.8	16.7	16.2	17.1	17.4
	6H	15.7	16.5	16.1	16.9	17.3	15.7	16.5	16.1	16.9	17.3
	8H	15.6	16.4	16.1	16.8	17.2	15.6	16.4	16.1	16.8	17.2
	12H	15.6	16.3	16.0	16.7	17.2	15.6	16.3	16.0	16.7	17.2
4H	2H	15.8	16.7	16.2	17.1	17.5	15.8	16.7	16.2	17.1	17.5
	3H	15.8	16.6	16.3	17.0	17.4	15.8	16.6	16.3	17.0	17.4
	4H	15.7	16.4	16.2	16.8	17.3	15.7	16.4	16.2	16.8	17.3
	6H	15.6	16.2	16.1	16.7	17.1	15.6	16.2	16.1	16.7	17.1
	8H	15.6	16.1	16.0	16.6	17.0	15.6	16.1	16.0	16.6	17.0
	12H	15.5	16.0	16.0	16.5	16.9	15.5	16.0	16.0	16.5	16.9
8H	4H	15.6	16.1	16.0	16.6	17.0	15.6	16.1	16.0	16.6	17.0
	6H	15.5	15.9	16.0	16.4	16.9	15.5	15.9	16.0	16.4	16.9
	8H	15.4	15.8	15.9	16.3	16.8	15.4	15.8	15.9	16.3	16.8
	12H	15.4	15.7	15.9	16.2	16.8	15.4	15.7	15.9	16.2	16.8
12H	4H	15.5	16.0	16.0	16.5	17.0	15.5	16.0	16.0	16.5	17.0
	6H	15.4	15.8	15.9	16.3	16.8	15.4	15.8	15.9	16.3	16.8
	8H	15.4	15.7	15.9	16.2	16.8	15.4	15.7	15.9	16.2	16.8

Maximum UGR = 17.6

POLAR GRAPH



Maximum Candela = 1987.39 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)