



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L100-835-XXX-DIM-UNV-OW-OF-CS_.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] 11-29-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 8" RND PENDANT MOUNT CYLINDER
 [MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)
 [LUMCAT] 8CR-TL-L100-835-xxx-DIM-UNV-OW-OF-CS-PMxx
 [LAMPCAT] BRIDGELUX VERO 80 CRI 3500K CCT COB
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Commercial, Healthcare, Office
 [_SEARCH_MOUNTING] Pendant

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	89.8
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)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	17305	17305	17305
55	6029	6029	6029
65	1259	1259	1259
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	8120.687
5	7668.998
10	8441.240
15	8426.670
20	8800.649
25	9626.317
30	9456.326
35	2933.550
40	403.120
45	223.416
50	131.135
55	63.139
60	33.998
65	9.714
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	3185.44	N.A.	31.30
0-30	7533.01	N.A.	74.00
0-40	9914.21	N.A.	97.40
0-60	10166.55	N.A.	99.90
0-80	10179.64	N.A.	100.00
0-90	10179.64	N.A.	100.00
10-90	9414.56	N.A.	92.50
20-40	6728.77	N.A.	66.10
20-50	6916.42	N.A.	67.90
40-70	265.43	N.A.	2.60
60-80	13.09	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	10179.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	765.07
10-20	2420.37
20-30	4347.57
30-40	2381.19
40-50	187.65
50-60	64.69
60-70	13.09
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

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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	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

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UGR TABLE - CORRECTED

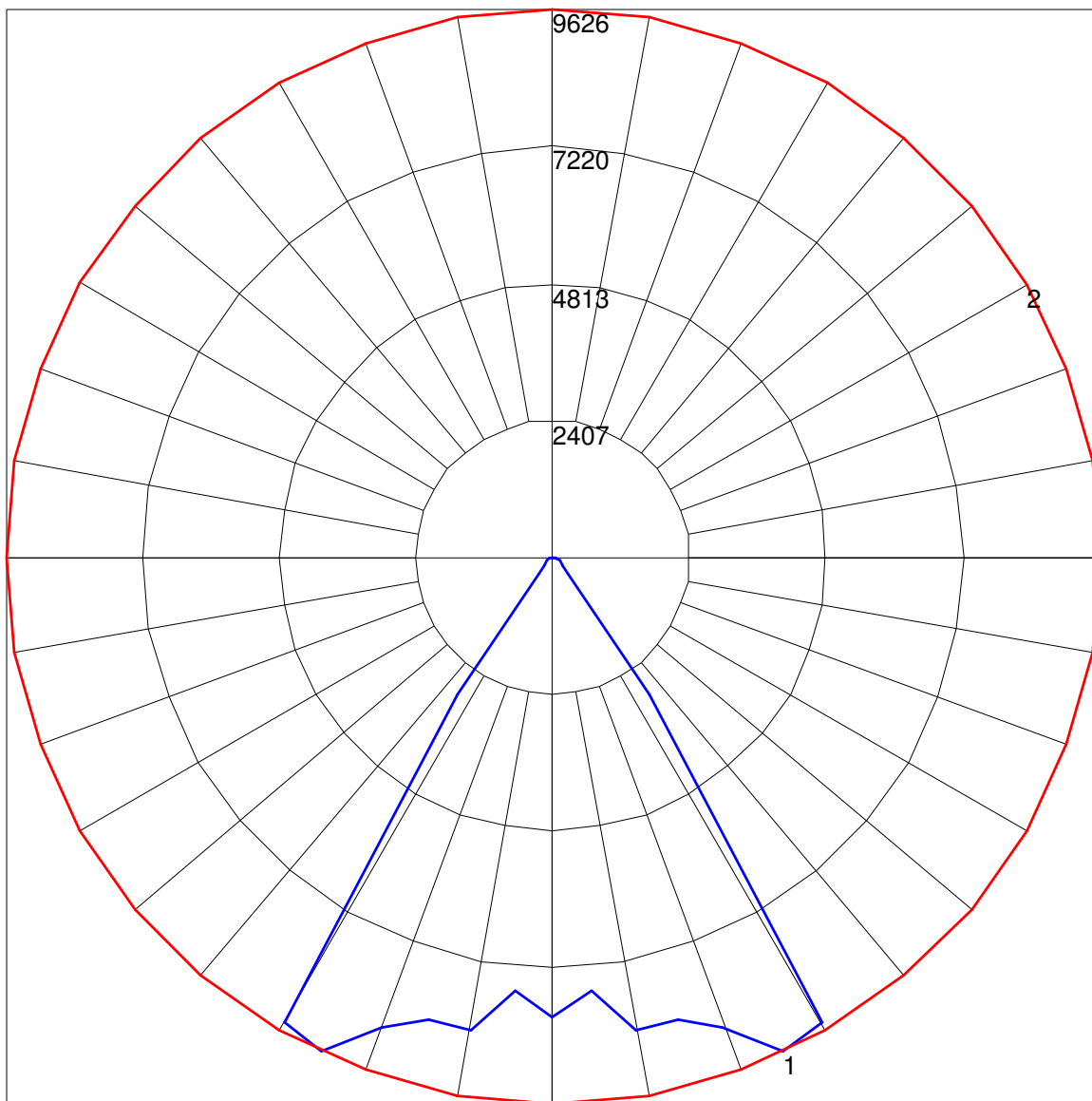
Reflectances

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	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	3H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	4H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	6H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	8H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	12H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
4H	2H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	3H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	4H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	6H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	8H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	12H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
8H	4H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	6H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	8H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	12H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
12H	4H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	6H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	8H	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1

Maximum UGR = 8.1

POLAR GRAPH



Maximum Candela = 9626.317 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)