



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L90-840-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] 01-26-2022
 [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-L90-840-xxx-DIM-UNV-OW-OF-CS-xx
 [LAMPCAT] BRIDGELUX VERO 80 CRI 4000K 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	9247
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	80.1
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	15720	15720	15720
55	5477	5477	5477
65	1144	1144	1144
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8CR-TL-L90-840-XXX-DIM-UNV-OW-OF-CS_.IES

CANDELA TABULATION

	<u>0</u>
0	7376.871
5	6966.554
10	7668.063
15	7654.827
20	7994.551
25	8744.592
30	8590.172
35	2664.850
40	366.196
45	202.952
50	119.124
55	57.356
60	30.884
65	8.824
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-L90-840-XXX-DIM-UNV-OW-OF-CS_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2893.67	N.A.	31.30
0-30	6843.03	N.A.	74.00
0-40	9006.11	N.A.	97.40
0-60	9235.35	N.A.	99.90
0-80	9247.23	N.A.	100.00
0-90	9247.23	N.A.	100.00
10-90	8552.24	N.A.	92.50
20-40	6112.44	N.A.	66.10
20-50	6282.91	N.A.	67.90
40-70	241.12	N.A.	2.60
60-80	11.89	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	9247.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	695.00
10-20	2198.67
20-30	3949.36
30-40	2163.09
40-50	170.46
50-60	58.77
60-70	11.89
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-L90-840-XXX-DIM-UNV-OW-OF-CS_.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	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L90-840-XXX-DIM-UNV-OW-OF-CS_.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

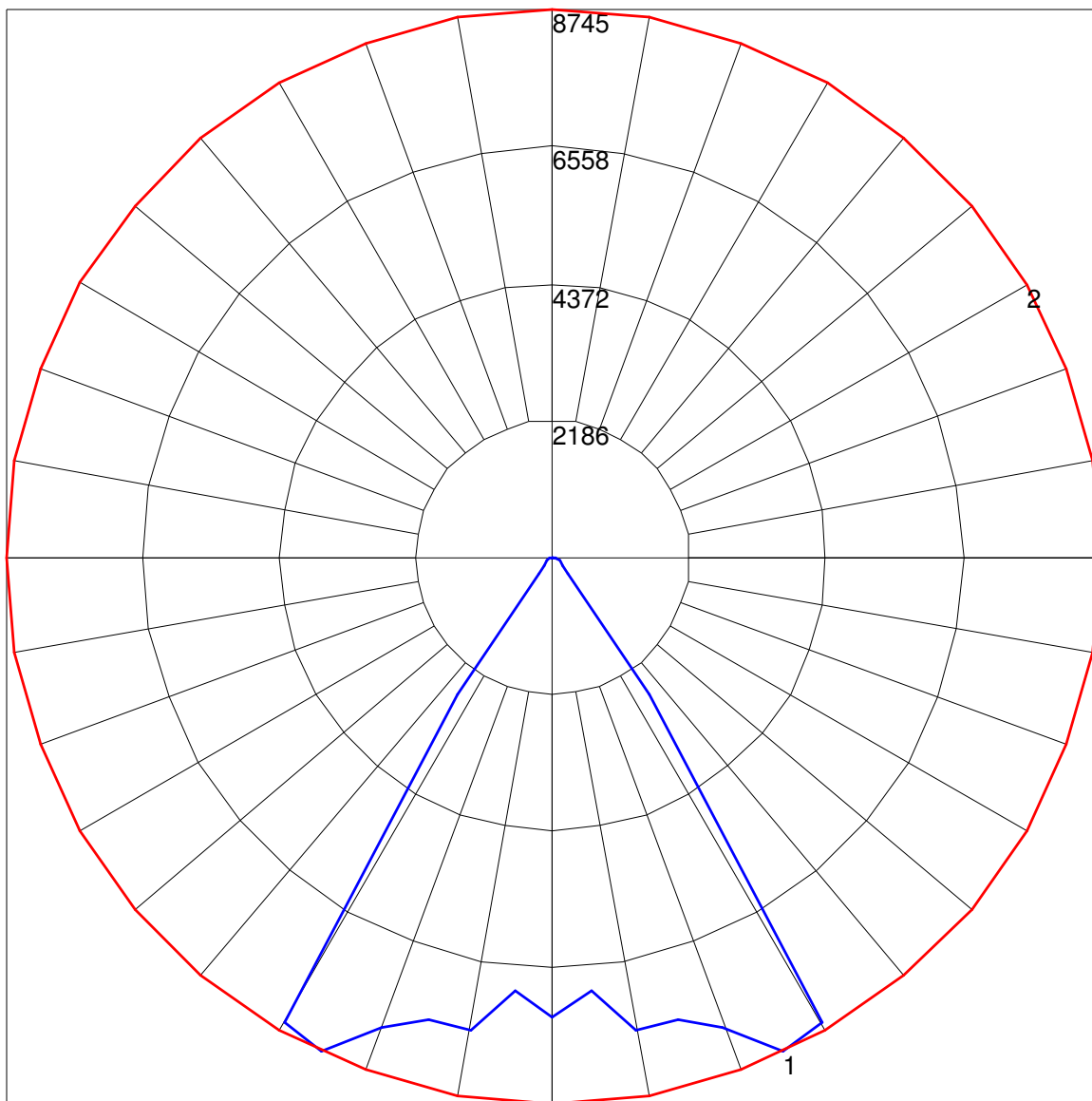
X=2H	Y=2H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	3H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	4H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	6H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	8H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	12H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7

UGR Viewed Endwise

4H	2H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	3H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	4H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	6H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	8H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	12H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
8H	4H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	6H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	8H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	12H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
12H	4H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	6H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	8H	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7

Maximum UGR = 7.7

POLAR GRAPH



Maximum Candela = 8744.592 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.)