



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L60-940-XXX-DIM-UNV-OW-CS-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20687.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 4-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] LED 8" ROUND SURFACE CYLINDER

[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 8CR-TL-L60-940-xxx-DIM-UNV-OW-CS-xx

[LAMPCAT] V13 BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[\_SEARCH\_MOUNTING] Surface

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	54
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)	0.48 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	10185	10185	10185
55	3548	3548	3548
65	741	741	741
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	4386.607
5	4142.615
10	4559.763
15	4551.892
20	4753.907
25	5199.914
30	5108.089
35	1584.636
40	217.756
45	120.684
50	70.836
55	34.106
60	18.365
65	5.247
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L60-940-XXX-DIM-UNV-OW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1720.7	N.A.	31.30
0-30	4069.16	N.A.	74.00
0-40	5355.43	N.A.	97.40
0-60	5491.74	N.A.	99.90
0-80	5498.81	N.A.	100.00
0-90	5498.81	N.A.	100.00
10-90	5085.53	N.A.	92.50
20-40	3634.72	N.A.	66.10
20-50	3736.09	N.A.	67.90
40-70	143.38	N.A.	2.60
60-80	7.07	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	5498.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	413.28
10-20	1307.43
20-30	2348.46
30-40	1286.27
40-50	101.36
50-60	34.95
60-70	7.07
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	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94	94	94	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87	87	87	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81	81	81	81
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75	75	75	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70	70	70	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65	65	65	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61	61	61	61
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57	57	57	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	57	54	53	53	53	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50	50	50	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

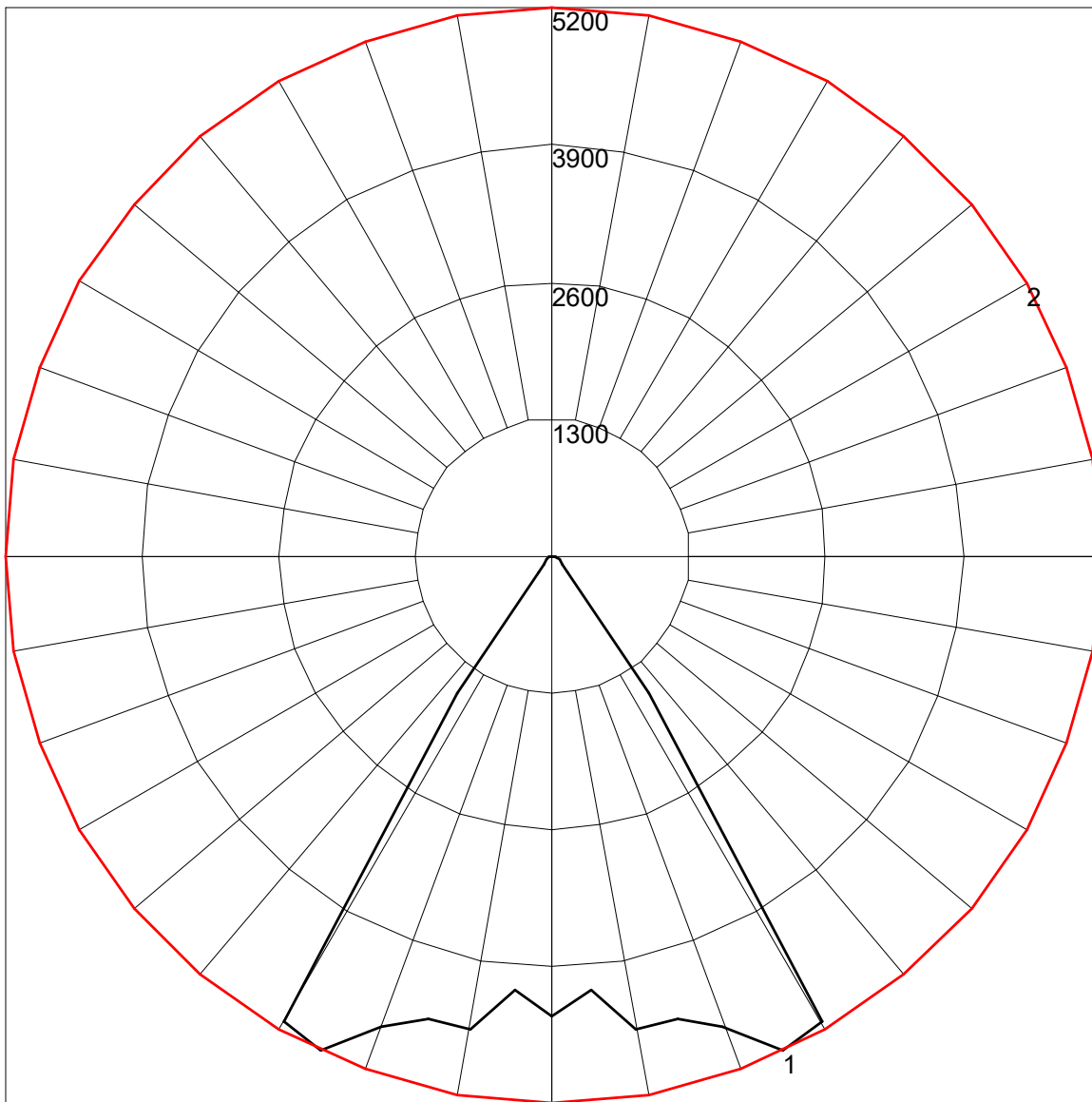
X=2H	Y=2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

### UGR Viewed Endwise

4H	2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
8H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
12H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 5199.914 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.)