



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L60-830-DIM LINE-UNV-RW-OF-CS-AD_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20734.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 27-APR-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8" RND LED DOWNLIGHT CYLINDER

[MORE] WHITE REFL w/DIFFUSE ACRYLIC LENS & SEMI-SPEC CONE

[LUMCAT] 8CR-TL-L60-830-DIM LINE-UNV-RW-CS-AD

[LAMPCAT] BRIDGELUX V13 BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[_SEARCH_MOUNTING] Surface, Pendant, Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3553
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.94
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	57403	57403	57403
55	36738	36738	36738
65	16348	16348	16348
75	667	667	667
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2958.025
5	2890.058
10	2727.530
15	2476.349
20	2171.976
25	1832.143
30	1501.176
35	1182.028
40	930.847
45	694.441
50	508.272
55	360.519
60	227.540
65	118.203
70	32.506
75	2.955
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-L60-830-DIM LINE-UNV-RW-OF-CS-AD_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	962.65	N.A.	27.10
0-30	1804.44	N.A.	50.80
0-40	2552.08	N.A.	71.80
0-60	3420.87	N.A.	96.30
0-80	3553.14	N.A.	100.00
0-90	3553.14	N.A.	100.00
10-90	3282.27	N.A.	92.40
20-40	1589.43	N.A.	44.70
20-50	2133.39	N.A.	60.00
40-70	991.00	N.A.	27.90
60-80	132.27	N.A.	3.70
70-80	10.06	N.A.	0.30
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	3553.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.87
10-20	691.78
20-30	841.79
30-40	747.64
40-50	543.96
50-60	324.83
60-70	122.21
70-80	10.06
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	56	52	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40

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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	21.4	22.6	21.7	22.9	23.3	21.4	22.6	21.7	22.9	23.3
	3H	21.5	22.6	21.8	22.9	23.3	21.5	22.6	21.8	22.9	23.3
	4H	21.4	22.4	21.8	22.8	23.2	21.4	22.4	21.8	22.8	23.2
	6H	21.3	22.2	21.7	22.6	23.0	21.3	22.2	21.7	22.6	23.0
	8H	21.3	22.2	21.7	22.5	23.0	21.3	22.2	21.7	22.5	23.0
	12H	21.2	22.1	21.6	22.5	22.9	21.2	22.1	21.6	22.5	22.9

UGR Viewed Endwise

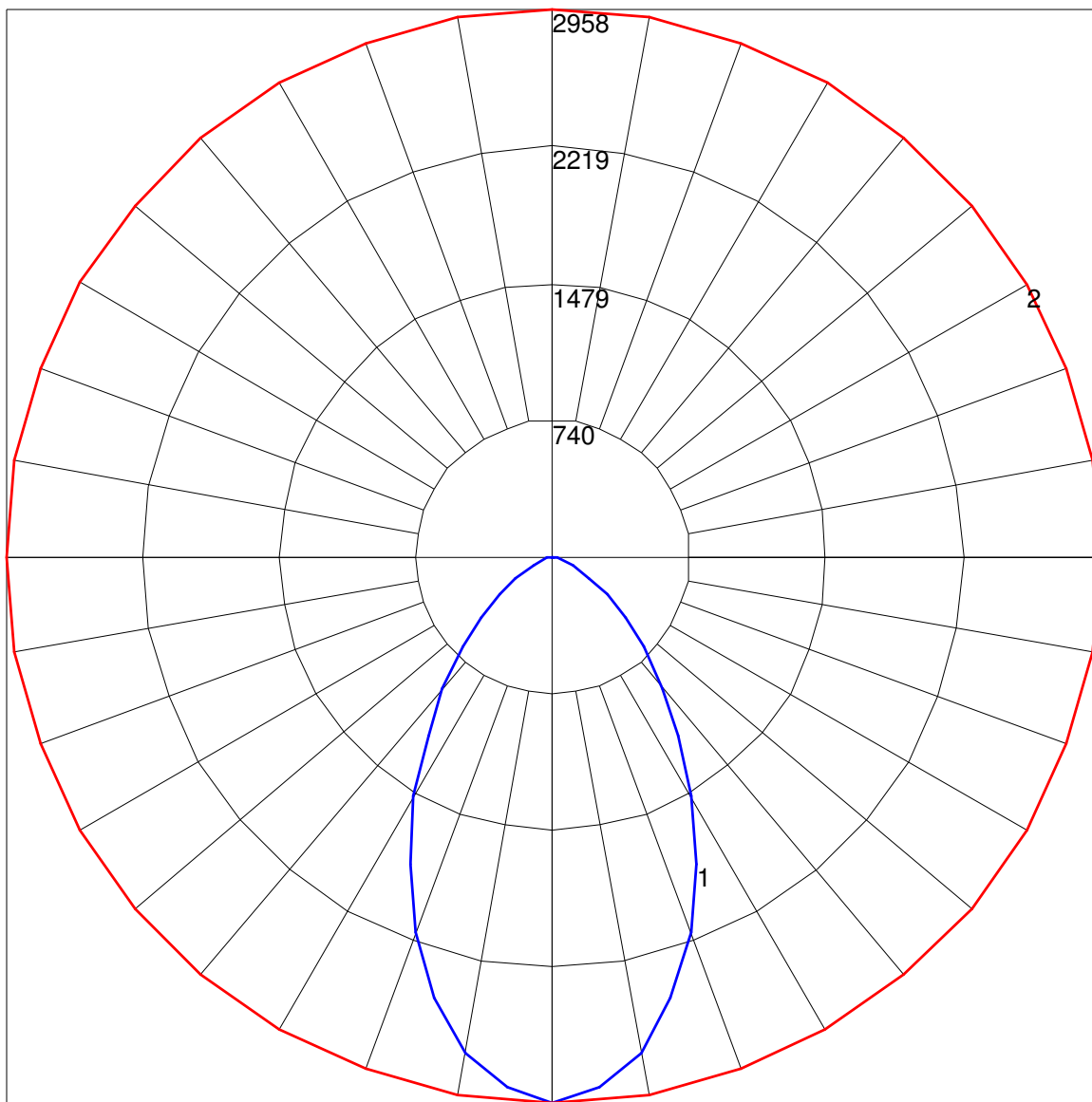
4H	2H	21.4	22.5	21.8	22.8	23.2	21.4	22.5	21.8	22.8	23.2
	3H	21.5	22.4	21.9	22.8	23.2	21.5	22.4	21.9	22.8	23.2
	4H	21.4	22.2	21.9	22.6	23.0	21.4	22.2	21.9	22.6	23.0
	6H	21.4	22.0	21.8	22.4	22.9	21.4	22.0	21.8	22.4	22.9
	8H	21.3	21.9	21.8	22.3	22.8	21.3	21.9	21.8	22.3	22.8
	12H	21.2	21.8	21.7	22.2	22.7	21.2	21.8	21.7	22.2	22.7

8H	4H	21.3	21.9	21.8	22.3	22.8	21.3	21.9	21.8	22.3	22.8
	6H	21.2	21.7	21.7	22.2	22.7	21.2	21.7	21.7	22.2	22.7
	8H	21.1	21.6	21.6	22.1	22.6	21.1	21.6	21.6	22.1	22.6
	12H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5

12H	4H	21.2	21.8	21.7	22.3	22.7	21.2	21.8	21.7	22.3	22.7
	6H	21.1	21.6	21.7	22.0	22.6	21.1	21.6	21.7	22.0	22.6
	8H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 2958.025 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)