



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L10-940-XXX-DIM-UNV-OW-OF-CS-TD-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20686.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC

[ISSUEDATE] 4-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1 BRIDGELUX V13 LED 6" ROUND SURFACE CYLINDER

[MORE] OPEN SEMI-SPEC SPUN ALUM REFL w/DOMED DIFF TOP LENS(WIDE)

[LUMCAT] 8CR-TL-L10-940-xxx-DIM-UNV-OW-CS-TD-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	639
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	8.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.08
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	7811	7811	7811
55	855	855	855
65	183	183	183
75	0	0	0
85	0	0	0

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 8CR-TL-L10-940-XXX-DIM-UNV-OW-OF-CS-TD-XX\_.IES**

**CANDELA TABULATION**

	<u>0</u>
<b>0</b>	419.536
<b>5</b>	433.809
<b>10</b>	464.950
<b>15</b>	479.223
<b>20</b>	483.548
<b>25</b>	471.005
<b>30</b>	401.803
<b>35</b>	244.802
<b>40</b>	148.784
<b>45</b>	92.558
<b>50</b>	48.874
<b>55</b>	8.218
<b>60</b>	2.595
<b>65</b>	1.298
<b>70</b>	0.000
<b>75</b>	0.000
<b>80</b>	0.000
<b>85</b>	0.000
<b>90</b>	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CR-TL-L10-940-XXX-DIM-UNV-OW-OF-CS-TD-XX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	177.71	N.A.	27.80
0-30	388.28	N.A.	60.80
0-40	549.16	N.A.	86.00
0-60	637.34	N.A.	99.80
0-80	638.61	N.A.	100.00
0-90	638.61	N.A.	100.00
10-90	596.26	N.A.	93.40
20-40	371.45	N.A.	58.20
20-50	444.72	N.A.	69.60
40-70	89.45	N.A.	14.00
60-80	1.28	N.A.	0.20
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	638.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	42.35
10-20	135.35
20-30	210.57
30-40	160.88
40-50	73.26
50-60	14.91
60-70	1.28
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-L10-940-XXX-DIM-UNV-OW-OF-CS-TD-XX\_.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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	80	74	69	88	79	74	69	78	72	68	76	71	68	74	70	67	66
6	84	75	68	64	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	58	78	69	63	58	67	62	58	66	61	58	65	61	57	56
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	49	57	53	49	48
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L10-940-XXX-DIM-UNV-OW-OF-CS-TD-XX\_.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

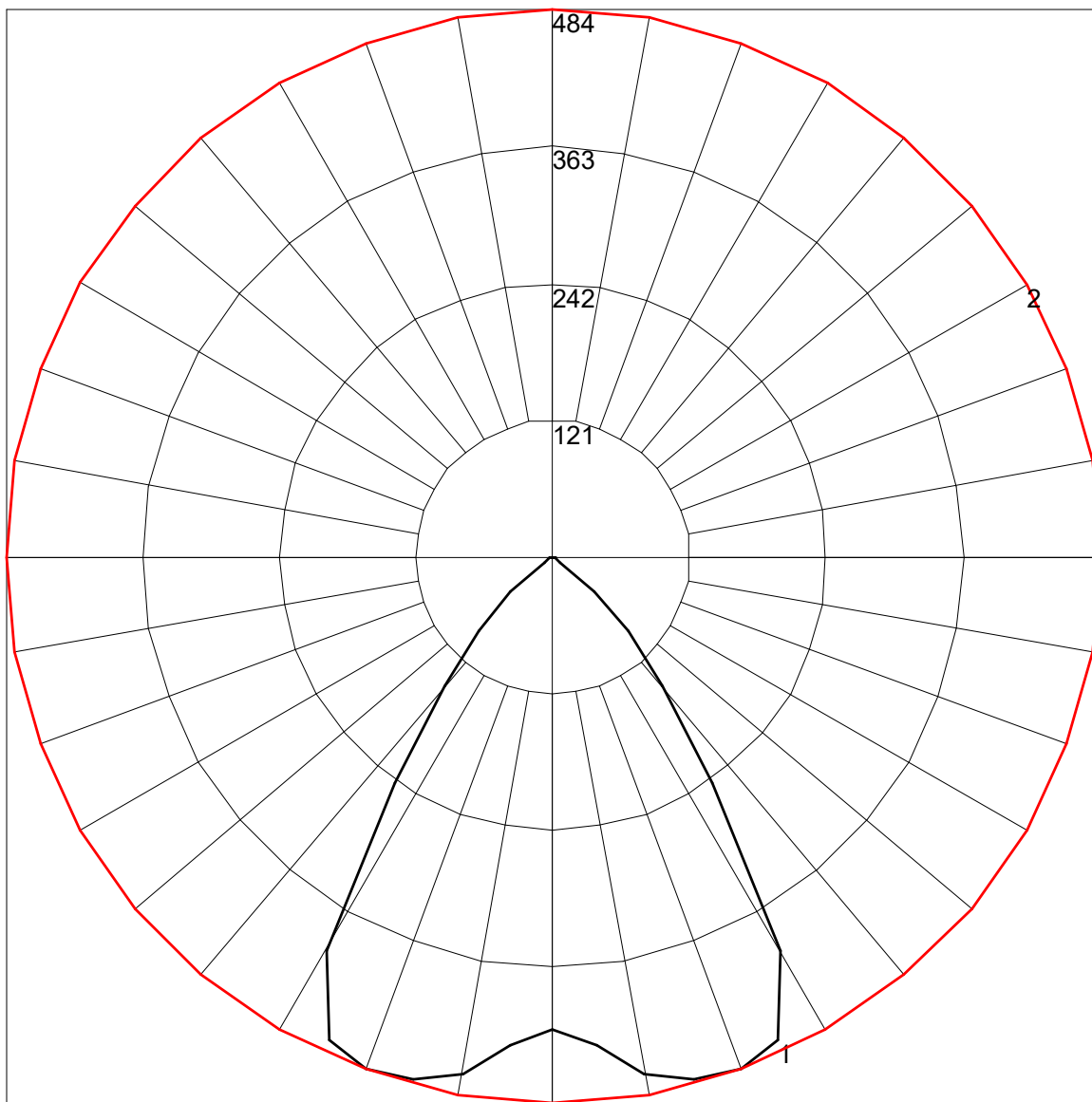
X=2H	Y=2H	0.0	0.7	0.0	1.1	1.4	0.0	0.7	0.0	1.1	1.4
	3H	0.0	0.5	0.0	0.8	1.2	0.0	0.5	0.0	0.8	1.2
	4H	0.0	0.3	0.0	0.7	1.0	0.0	0.3	0.0	0.7	1.0
	6H	0.0	0.1	0.0	0.5	0.9	0.0	0.1	0.0	0.5	0.9
	8H	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.4	0.8
	12H	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.3	0.7

### UGR Viewed Endwise

4H	2H	0.0	0.4	0.0	0.7	1.1	0.0	0.4	0.0	0.7	1.1
	3H	0.0	0.1	0.0	0.5	0.9	0.0	0.1	0.0	0.5	0.9
	4H	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.3	0.7
	6H	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.1	0.6
	8H	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5
	12H	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4
8H	4H	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5
	6H	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
	8H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
	12H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
12H	4H	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4
	6H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
	8H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2

Maximum UGR = 1.4

POLAR GRAPH



Maximum Candela = 483.548 Located At Horizontal Angle = 0, Vertical Angle = 20

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)