



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-840-DIM-UNV-OW-OF-CS-WET-CC_.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] 10-28-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1 BRIDGELUX V13 LED 6"RND RECESSED CAST HOUSING DOWNLIGHT
 [MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)
 [LUMCAT] 6DR-TL-L40-840-DIM-UNV-OW-OF-CS-WETCC
 [LAMPCAT] V13 BXRE-40E2000
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3515
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	36.5
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	6510	6510	6510
55	2268	2268	2268
65	474	474	474
75	0	0	0
85	0	0	0

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-840-DIM-UNV-OW-OF-CS-WET-CC_.IES

CANDELA TABULATION

	<u>0</u>
0	2803.752
5	2647.801
10	2914.426
15	2909.395
20	3038.516
25	3323.586
30	3264.895
35	1012.839
40	139.181
45	77.137
50	45.276
55	21.800
60	11.738
65	3.354
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L40-840-DIM-UNV-OW-OF-CS-WET-CC_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1099.81	N.A.	31.30
0-30	2600.85	N.A.	74.00
0-40	3422.98	N.A.	97.40
0-60	3510.11	N.A.	99.90
0-80	3514.63	N.A.	100.00
0-90	3514.63	N.A.	100.00
10-90	3250.48	N.A.	92.50
20-40	2323.18	N.A.	66.10
20-50	2387.97	N.A.	67.90
40-70	91.64	N.A.	2.60
60-80	4.52	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	3514.63	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	264.15
10-20	835.66
20-30	1501.05
30-40	822.13
40-50	64.79
50-60	22.34
60-70	4.52
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 : 6DR-TL-L40-840-DIM-UNV-OW-OF-CS-WET-CC_.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	78	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	54	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 : 6DR-TL-L40-840-DIM-UNV-OW-OF-CS-WET-CC_.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

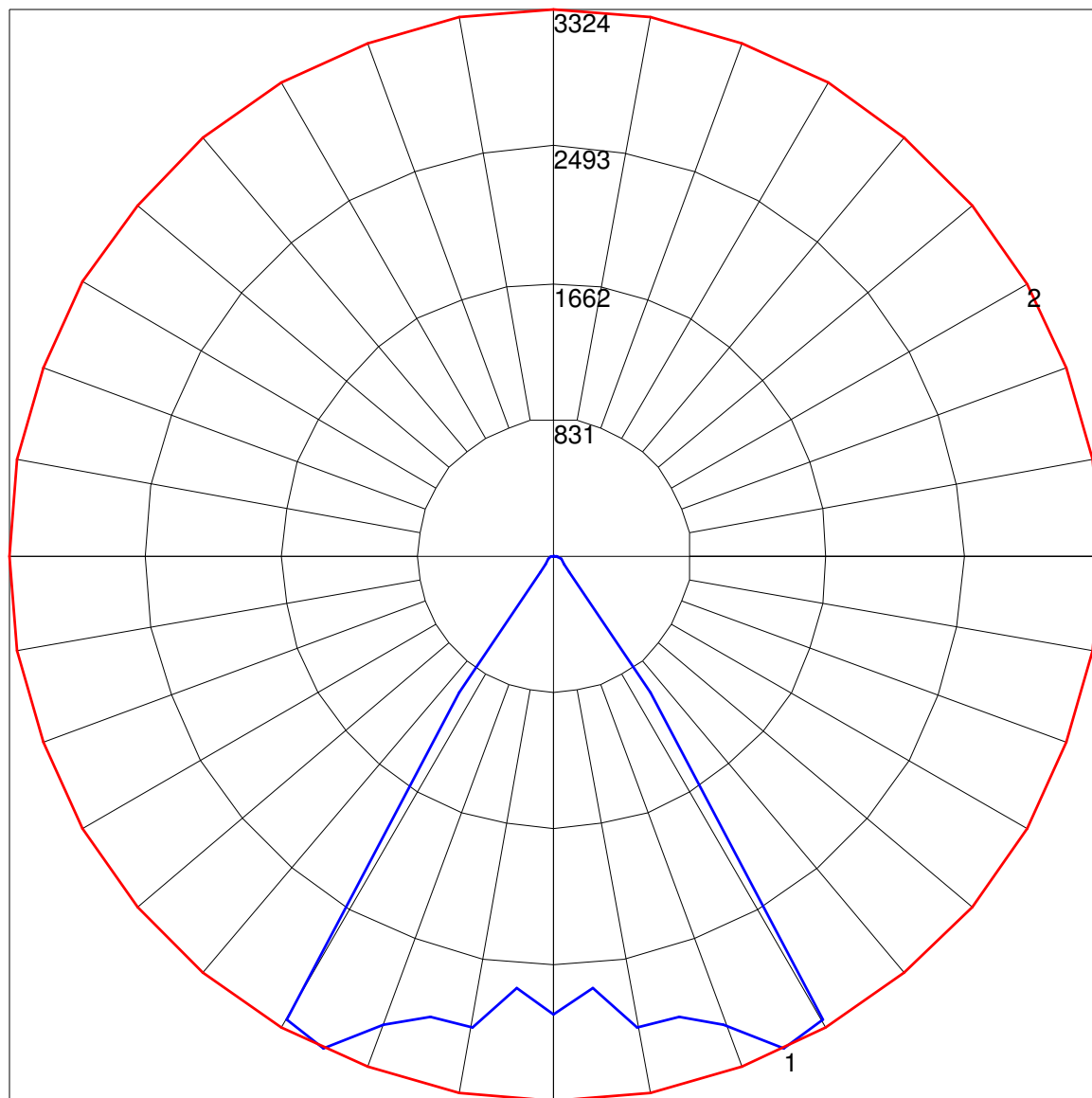
X=2H	Y=2H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	3H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	4H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	6H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	8H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	12H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4

UGR Viewed Endwise

4H	2H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	3H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	4H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	6H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	8H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	12H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
8H	4H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	6H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	8H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	12H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
12H	4H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	6H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	8H	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4

Maximum UGR = 4.4

POLAR GRAPH



Maximum Candela = 3323.586 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.)