



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L30-835-DIM-UNV-OW-OF-CS-WET-CC\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20685.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 10/02/2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1 BRIDGELUX V13 LED 4"RND RECESSED CAST HOUSING DOWNLIGHT  
 [MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)  
 [LUMCAT] 4DR-TL-L30-835-DIM-UNV-OW-OF-CS-WET-CC  
 [LAMPCAT] V13 BXRE-35E2000  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight  
 [ \_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.37 ft (Diameter)
Luminous Width (90-270)	0.37 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	7694	7694	7694
55	2371	2371	2371
65	293	293	293
75	0	0	0
85	0	0	0

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## CANDELA TABULATION

	<u>0</u>
0	2177.535
5	2242.500
10	2309.871
15	2357.994
20	2462.660
25	2684.022
30	2102.945
35	369.339
40	96.245
45	52.935
50	27.670
55	13.234
60	6.015
65	1.203
70	1.203
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4DR-TL-L30-835-DIM-UNV-OW-OF-CS-WET-CC\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	889.88	N.A.	35.10
0-30	2035.46	N.A.	80.20
0-40	2477.2	N.A.	97.60
0-60	2534.46	N.A.	99.90
0-80	2537.14	N.A.	100.00
0-90	2537.13	N.A.	100.00
10-90	2321.44	N.A.	91.50
20-40	1587.33	N.A.	62.60
20-50	1631.24	N.A.	64.30
40-70	59.62	N.A.	2.30
60-80	2.68	N.A.	0.10
70-80	0.31	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	2537.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	215.69
10-20	674.18
20-30	1145.59
30-40	441.74
40-50	43.91
50-60	13.34
60-70	2.36
70-80	0.31
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	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	88	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	76	67	61	57	75	66	61	57	66	60	57	65	60	57	64	60	57	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

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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

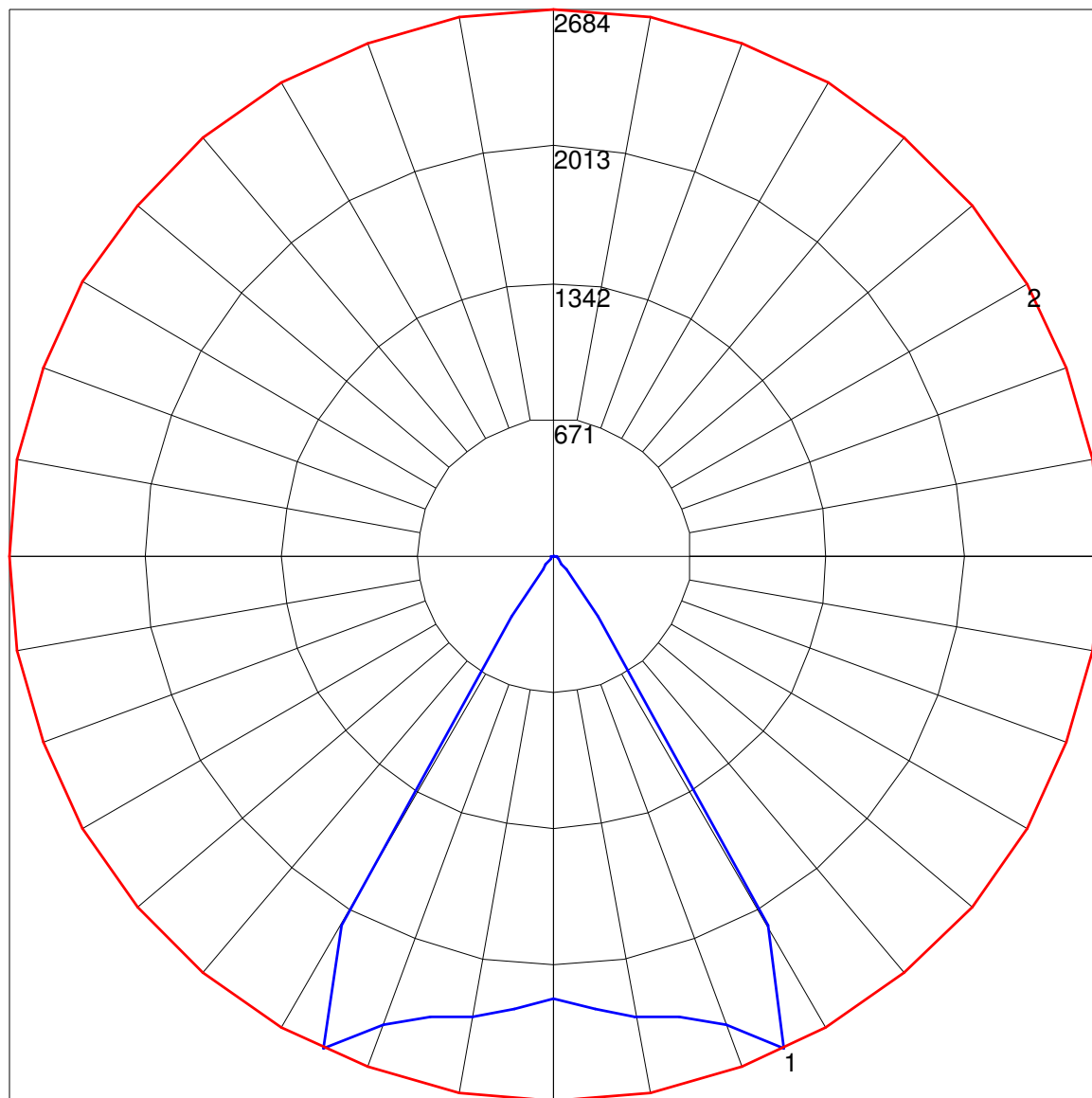
X=2H	Y=2H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

### UGR Viewed Endwise

4H	2H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
8H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
12H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

Maximum UGR = 3.2

POLAR GRAPH



Maximum Candela = 2684.022 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.)