



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-840-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

[ISSUEDATE] 20 APRIL 2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6" RND RECESSED LED CAST HOUSING DOWNLIGHT

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

[LUMCAT] 6DR-TL-L30-840-DIM-UNV-OW-OF-CS-WET-CC

[LAMPCAT] V13 BXRE-35E2000

[\_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	2628
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	27
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	4868	4868	4868
55	1696	1696	1696
65	354	354	354
75	0	0	0
85	0	0	0

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## CANDELA TABULATION

	<u>0</u>
0	2096.382
5	1979.777
10	2179.134
15	2175.372
20	2271.916
25	2485.065
30	2441.182
35	757.305
40	104.067
45	57.676
50	33.853
55	16.300
60	8.777
65	2.508
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L30-840-DIM-UNV-OW-OF-CS-WET-CC\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	822.33	N.A.	31.30
0-30	1944.67	N.A.	74.00
0-40	2559.39	N.A.	97.40
0-60	2624.53	N.A.	99.90
0-80	2627.91	N.A.	100.00
0-90	2627.91	N.A.	100.00
10-90	2430.4	N.A.	92.50
20-40	1737.05	N.A.	66.10
20-50	1785.5	N.A.	67.90
40-70	68.52	N.A.	2.60
60-80	3.38	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	2627.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	197.51
10-20	624.83
20-30	1122.34
30-40	614.71
40-50	48.44
50-60	16.70
60-70	3.38
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	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	79	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	55	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	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	3.4	3.4	3.4	3.4	3.4	UGR Viewed Endwise				
	3H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	12H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

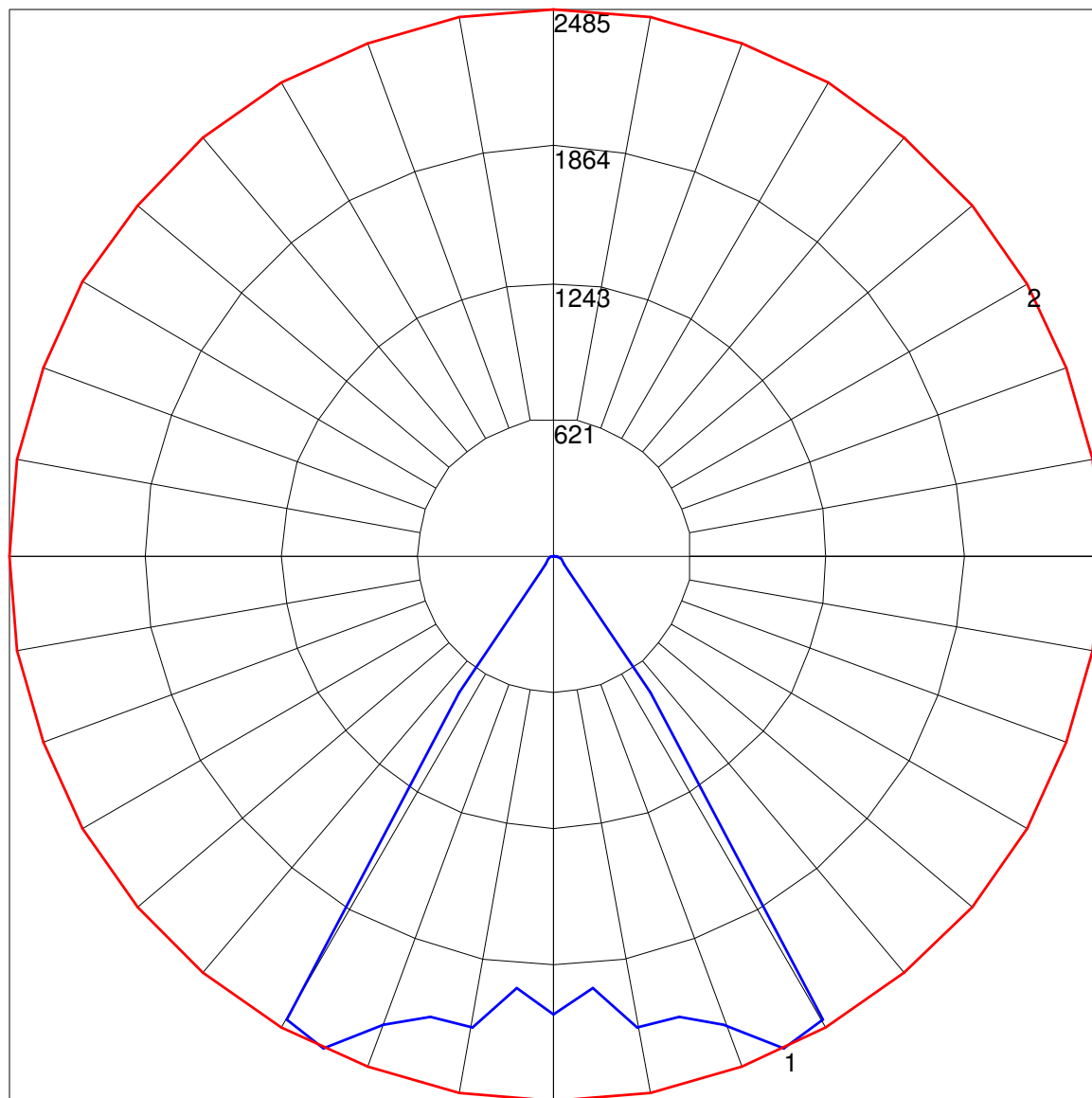
4H	2H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	3H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	12H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

8H	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	12H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

12H	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

Maximum UGR = 3.4

POLAR GRAPH



Maximum Candela = 2485.065 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.)