



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L80-940-DIM-UNV-OW-OF-CS\_.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] 07-FEB-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6"RND RECESSED CAST HOUSING DOWNLIGHT

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

[LUMCAT] 6DR-TL-L80-940-DIM-UNV-OW-OF-CS

[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	6735
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	80
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	12474	12474	12474
55	4346	4346	4346
65	908	908	908
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	5372.571
5	5073.737
10	5584.646
15	5575.006
20	5822.427
25	6368.681
30	6256.217
35	1940.809
40	266.701
45	147.810
50	86.758
55	41.772
60	22.493
65	6.427
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2107.46	N.A.	31.30
0-30	4983.77	N.A.	74.00
0-40	6559.15	N.A.	97.40
0-60	6726.1	N.A.	99.90
0-80	6734.75	N.A.	100.00
0-90	6734.75	N.A.	100.00
10-90	6228.59	N.A.	92.50
20-40	4451.69	N.A.	66.10
20-50	4575.84	N.A.	67.90
40-70	175.61	N.A.	2.60
60-80	8.66	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	6734.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	506.17
10-20	1601.29
20-30	2876.31
30-40	1575.38
40-50	124.15
50-60	42.80
60-70	8.66
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

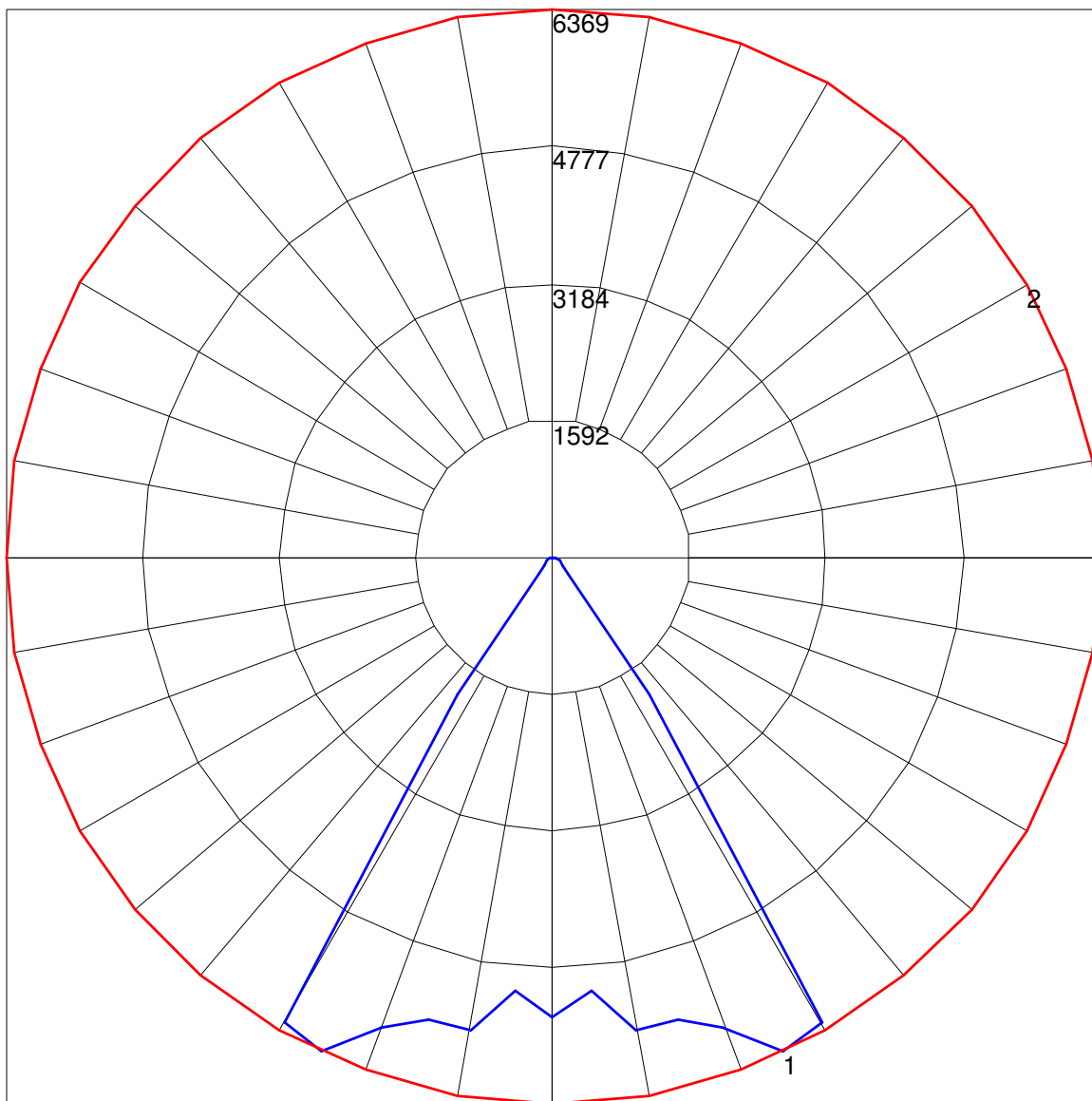
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	3H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	4H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	6H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	8H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	12H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
4H	2H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	3H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	4H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	6H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	8H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	12H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
8H	4H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	6H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	8H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	12H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
12H	4H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	6H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	8H	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6

Maximum UGR = 6.6

POLAR GRAPH



Maximum Candela = 6368.681 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.)