



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L50-835-DIM-UNV-OW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 20365.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 18-APR-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] GEN7 V22 LED 6" TALL HEATSINK 6" CAST HOUSING DOWNLIGHT
 [MORE] WHITE MIXING CHAMBER & 6" ALUM SEMI-SPEC TRIM w/FROST FILM
 [MORE] ADVANCE #XI075C200V054DSM1 @ 1360mA
 [LUMCAT] 6DS-L50-835-DIM-UNV-O-W-OF-CS
 [LAMPCAT] BXRE-35E6500
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25671	37838	25306
55	4350	7275	4425
65	305	509	305
75	332	332	332
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	5357	5357	5357	5357	5357
5	5297	5295	5287	5275	5268
10	5037	5042	5046	5025	5003
15	4591	4601	4605	4596	4573
20	4021	4030	4023	4014	3977
25	3243	3292	3349	3281	3216
30	2279	2422	2615	2408	2239
35	1415	1556	1814	1539	1406
40	807	926	1133	899	802
45	422	492	622	492	416
50	178	216	286	211	188
55	58	76	97	77	59
60	7	13	25	13	6
65	3	3	5	4	3
70	1	1	2	1	1
75	2	2	2	2	2
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1777.32	N.A.	37.10
0-30	3266.51	N.A.	68.30
0-40	4276.93	N.A.	89.40
0-60	4779.02	N.A.	99.90
0-80	4786.07	N.A.	100.00
0-90	4786.07	N.A.	100.00
10-90	4289.74	N.A.	89.60
20-40	2499.61	N.A.	52.20
20-50	2915.07	N.A.	60.90
40-70	507.76	N.A.	10.60
60-80	7.06	N.A.	0.10
70-80	1.38	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	4786.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	496.33
10-20	1280.99
20-30	1489.19
30-40	1010.42
40-50	415.46
50-60	86.62
60-70	5.67
70-80	1.38
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60
8	78	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	64	59	55	63	58	54	62	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

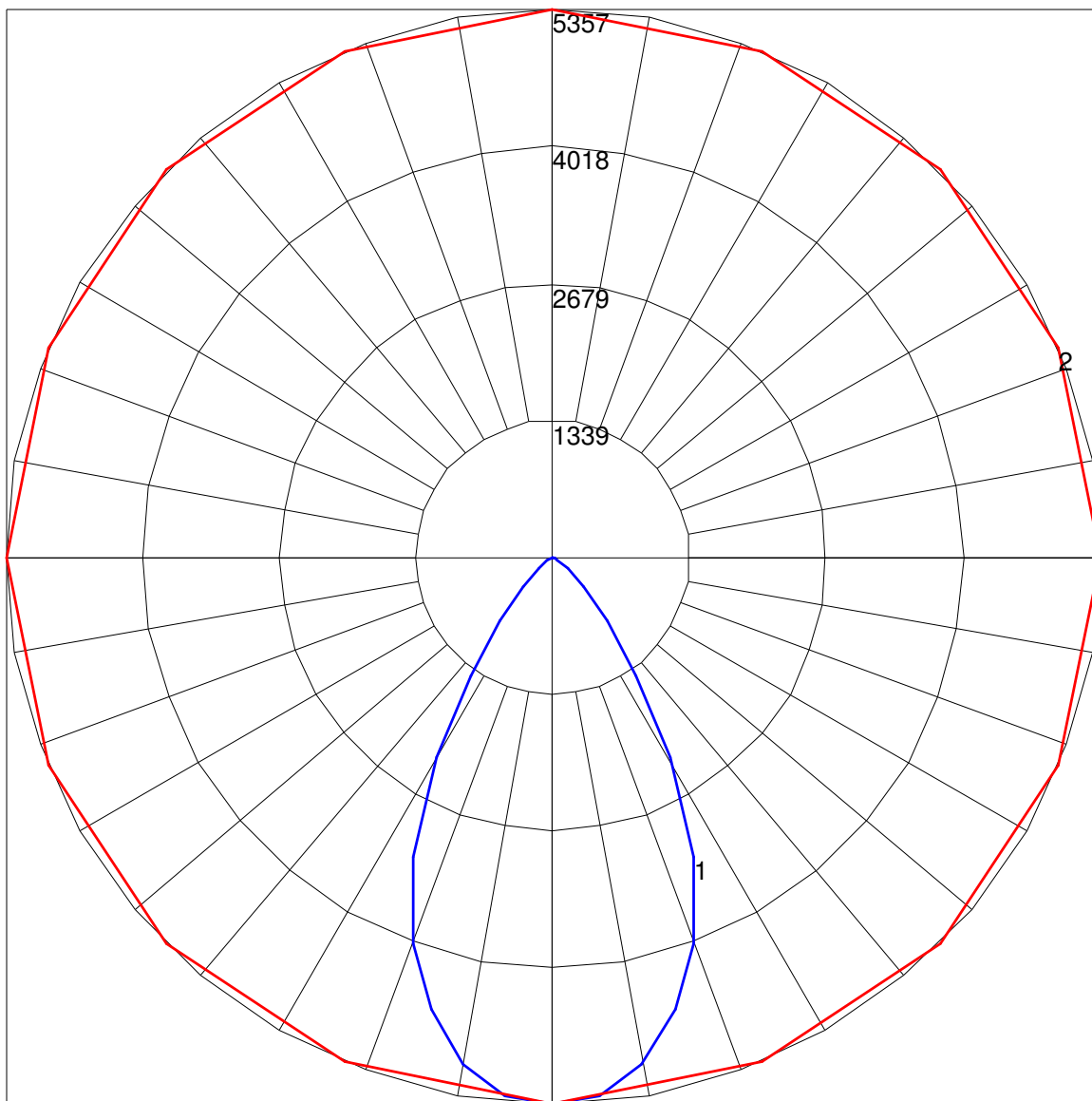
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UGR TABLE - CORRECTED

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	7.7	7.0	8.0	8.3	6.7	7.7	7.1	8.0	8.3
	3H	6.4	7.3	6.8	7.7	8.0	6.5	7.4	6.9	7.7	8.1
	4H	6.4	7.2	6.8	7.6	7.9	6.4	7.3	6.8	7.6	8.0
	6H	6.3	7.0	6.7	7.4	7.8	6.3	7.1	6.7	7.5	7.9
	8H	6.2	6.9	6.6	7.3	7.7	6.3	7.0	6.7	7.4	7.8
	12H	6.2	6.8	6.6	7.2	7.6	6.2	6.9	6.7	7.3	7.7
4H	2H	6.4	7.2	6.8	7.6	7.9	6.4	7.3	6.9	7.6	8.0
	3H	6.2	6.9	6.6	7.3	7.7	6.3	6.9	6.7	7.3	7.7
	4H	6.1	6.7	6.5	7.1	7.6	6.2	6.8	6.6	7.2	7.6
	6H	6.0	6.5	6.5	7.0	7.4	6.1	6.6	6.5	7.0	7.5
	8H	5.9	6.4	6.4	6.9	7.3	6.0	6.5	6.5	6.9	7.4
	12H	5.9	6.3	6.4	6.8	7.2	5.9	6.3	6.4	6.8	7.3
8H	4H	5.9	6.4	6.4	6.9	7.3	6.0	6.5	6.5	6.9	7.4
	6H	5.8	6.2	6.3	6.7	7.2	5.9	6.3	6.4	6.8	7.2
	8H	5.7	6.1	6.3	6.6	7.1	5.8	6.1	6.3	6.7	7.2
	12H	5.7	6.0	6.2	6.5	7.1	5.7	6.0	6.3	6.5	7.1
12H	4H	5.9	6.3	6.4	6.8	7.2	5.9	6.3	6.4	6.8	7.3
	6H	5.7	6.1	6.3	6.6	7.1	5.8	6.1	6.3	6.6	7.2
	8H	5.7	6.0	6.2	6.5	7.1	5.7	6.0	6.3	6.5	7.1

Maximum UGR = 8.3

POLAR GRAPH



Maximum Candela = 5357 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)