



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L40-835-DIM-UNV-OM-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 20363.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 04-22-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ CAST HOUSING DOWNLIGHT
 [MORE] ACRYLIC MED TIR OPTIC & 6" SEMI-SPEC ALUMINUM TRIM
 [MORE] w/FROST FILM ADVANCE # XI036C070V054DSM1 @ 810mA
 [LUMCAT] 6DS-L40-835-DIM-UNV-O-M-OF-CS
 [LAMPCAT] BXRE-35E4000
 [_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	3066
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	41.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.74
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	9313	23774	9477
55	705	1914	705
65	0	0	0
75	0	0	0
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	4736.655	4736.655	4736.655	4736.655	4736.655
5	4535.210	4527.152	4524.466	4539.239	4547.296
10	4014.137	4024.881	4026.224	3992.650	4019.509
15	3366.826	3388.313	3369.512	3352.053	3388.313
20	2665.795	2621.477	2621.477	2655.052	2661.767
25	2027.885	1964.765	1960.736	1967.451	1994.310
30	1365.801	1371.172	1408.776	1380.573	1352.371
35	850.100	883.674	1000.513	895.761	816.526
40	408.263	507.643	671.485	519.729	416.321
45	153.099	226.962	390.804	217.561	155.785
50	41.632	60.434	138.326	55.062	41.632
55	9.401	14.773	25.516	13.430	9.401
60	1.343	1.343	4.029	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1350.3	N.A.	44.00
0-30	2259.18	N.A.	73.70
0-40	2834.17	N.A.	92.40
0-60	3066.12	N.A.	100.00
0-80	3066.49	N.A.	100.00
0-90	3066.49	N.A.	100.00
10-90	2649.87	N.A.	86.40
20-40	1483.86	N.A.	48.40
20-50	1692.33	N.A.	55.20
40-70	232.32	N.A.	7.60
60-80	0.37	N.A.	0.00
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	3066.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	416.61
10-20	933.69
20-30	908.88
30-40	574.99
40-50	208.46
50-60	23.49
60-70	0.37
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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	93	91	93	91	90	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	74	70	78	74	70	77	73	70	76	72	69	68
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	59	55	73	64	59	55	64	59	55	63	58	55	62	58	55	54

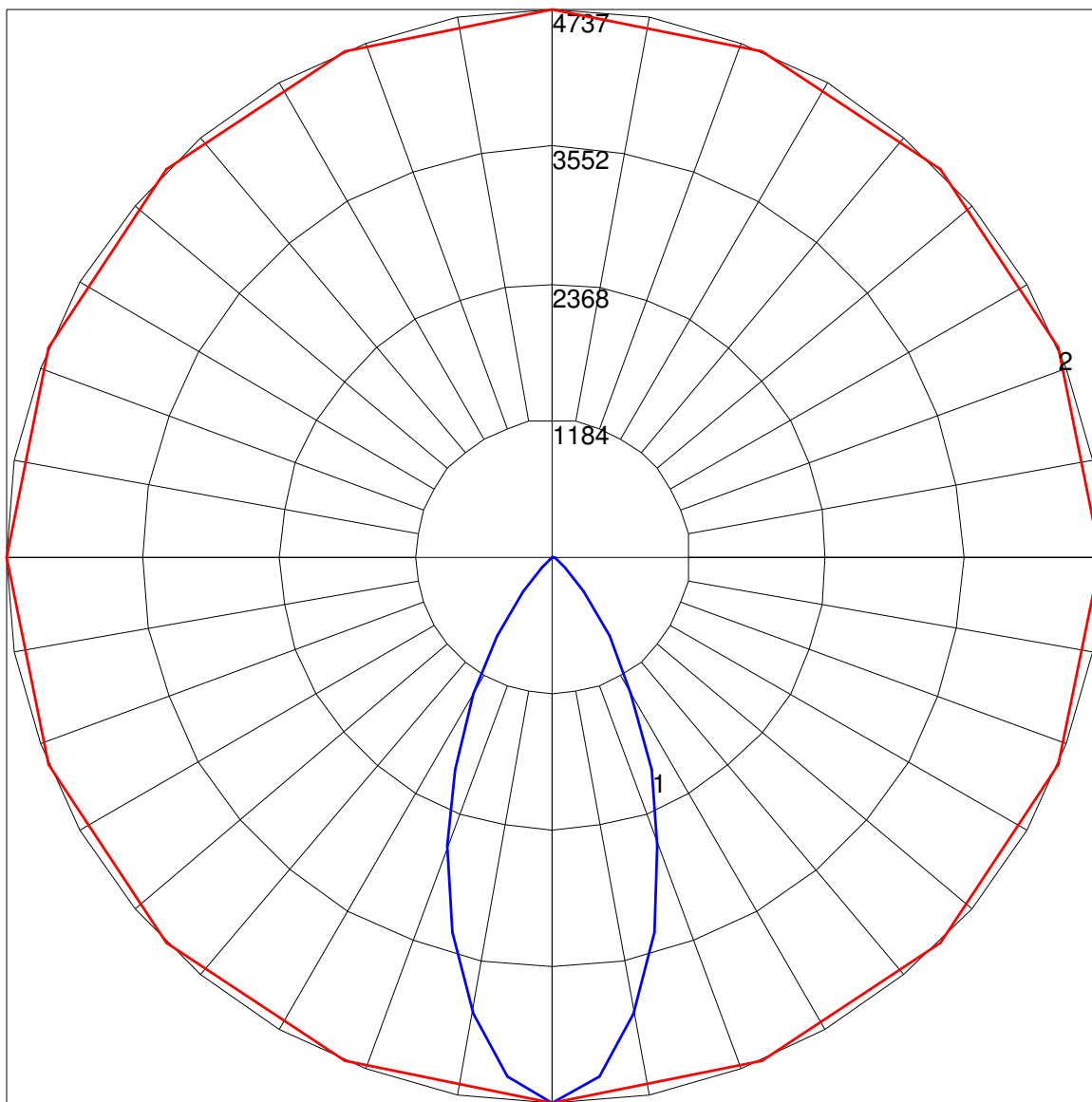
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UGR TABLE - CORRECTED

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	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	3H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
4H	2H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	3H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
8H	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
12H	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9

Maximum UGR = 3.9

POLAR GRAPH



Maximum Candela = 4736.655 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.)