



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-P35-835-DIM-POE-LW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20316.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 16-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 4"CAST WHITE FLUSH w/SOLITE LENS

[LUMCAT] 4DS-P35-835-DIM-PoE-LW-OF-WH

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3488
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	73901	80195	73201
55	55180	56617	54893
65	39395	38225	38616
75	26750	26113	26750
85	9457	7565	11348

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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	2593.902	2593.902	2593.902	2593.902	2593.902
5	2570.105	2571.805	2570.105	2571.805	2571.805
10	2508.912	2510.612	2519.111	2536.109	2539.509
15	2423.922	2442.620	2459.618	2474.916	2474.916
20	2221.645	2294.737	2340.632	2335.532	2289.637
25	1881.684	1997.271	2129.856	2009.170	1886.784
30	1281.653	1482.230	1767.797	1473.731	1244.257
35	851.602	946.791	1295.251	943.392	834.604
40	664.624	702.019	821.006	691.821	645.926
45	538.838	560.936	584.733	550.737	533.739
50	426.651	455.548	450.448	438.550	424.951
55	326.363	334.862	334.862	333.162	324.663
60	239.673	244.772	243.072	243.072	239.673
65	171.680	173.380	166.581	171.680	168.281
70	113.887	120.686	112.187	115.587	113.887
75	71.392	71.392	69.692	69.692	71.392
80	37.396	35.696	35.696	37.396	39.096
85	8.499	8.499	6.799	6.799	10.199
90	0.000	0.000	0.000	1.700	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	931.88	N.A.	26.70
0-30	1827.27	N.A.	52.40
0-40	2483.72	N.A.	71.20
0-60	3223.44	N.A.	92.40
0-80	3473.63	N.A.	99.60
0-90	3488.02	N.A.	100.00
10-90	3244.06	N.A.	93.00
20-40	1551.83	N.A.	44.50
20-50	1990.26	N.A.	57.10
40-70	912.55	N.A.	26.20
60-80	250.19	N.A.	7.20
70-80	77.36	N.A.	2.20
80-90	14.39	N.A.	0.40
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	3488.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	243.96
10-20	687.92
20-30	895.38
30-40	656.45
40-50	438.43
50-60	301.29
60-70	172.83
70-80	77.36
80-90	14.39
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

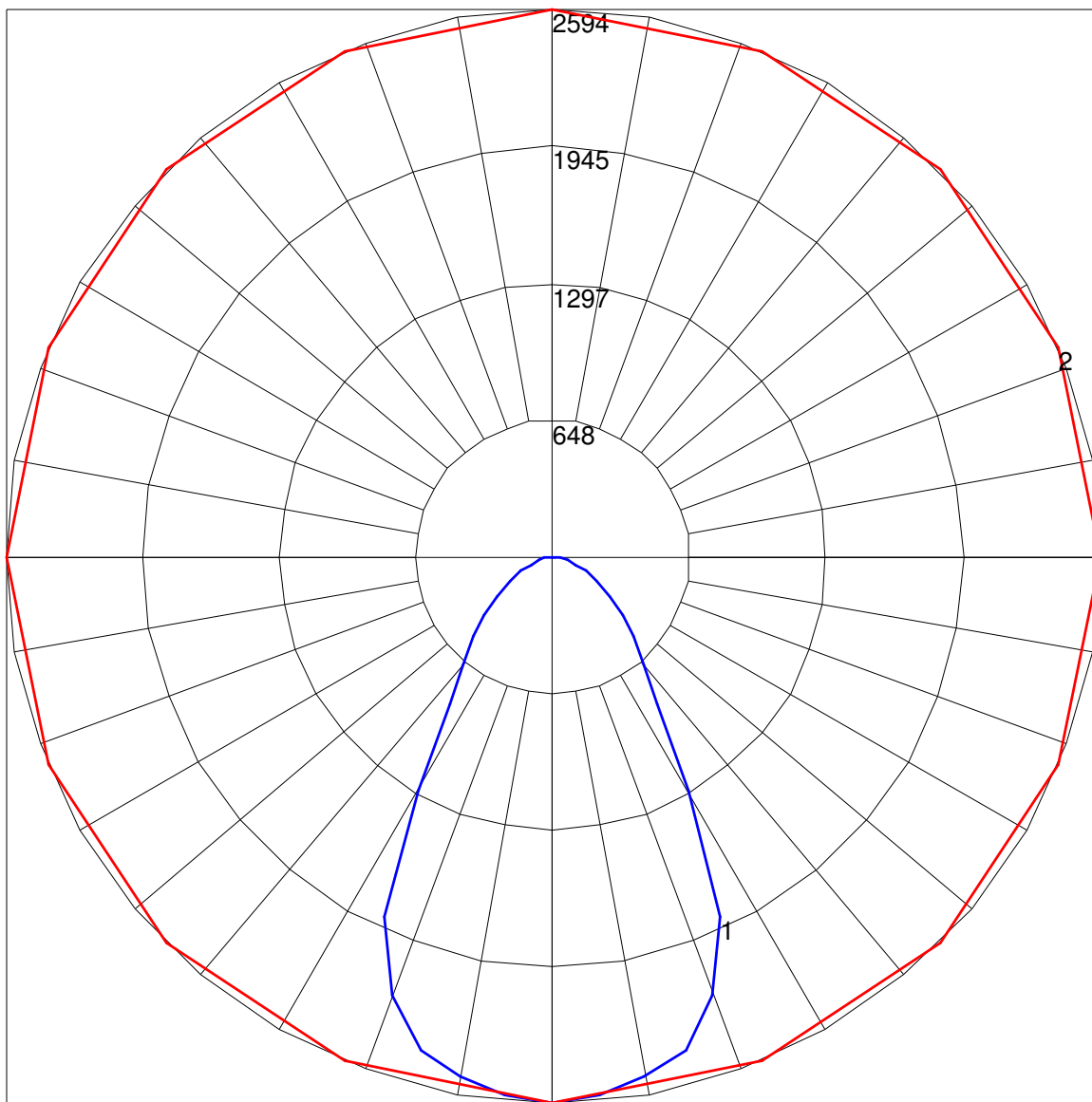
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

POLAR GRAPH



Maximum Candela = 2593.902 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.)