



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-P11-8TW-DIM-UNV-LW-OF-WH_4000K.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] 10-APR-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT
 [MORE] WHITE MIXING CHAMBER & 4"CAST WHITE FLUSH w/SOLITE LENS
 [LUMCAT] 4DS-P11-8TW-DIM-UNV-LW-OF-WH
 [LAMPCAT] BXRE-35E2000
 [_SEARCH_SOURCETYPE] 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	1031
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	12.3
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	21844	23704	21637
55	16310	16735	16225
65	11645	11299	11414
75	7907	7719	7907
85	2795	2237	3355

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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	766.718	766.718	766.718	766.718	766.718
5	759.684	760.187	759.684	760.187	760.187
10	741.596	742.099	744.611	749.635	750.640
15	716.475	722.001	727.026	731.548	731.548
20	656.685	678.289	691.855	690.348	676.782
25	556.197	590.363	629.553	593.880	557.705
30	378.837	438.125	522.534	435.613	367.784
35	251.721	279.857	382.857	278.852	246.696
40	196.453	207.506	242.677	204.492	190.926
45	159.272	165.804	172.838	162.789	157.765
50	126.112	134.653	133.146	129.629	125.609
55	96.468	98.980	98.980	98.478	95.965
60	70.844	72.351	71.848	71.848	70.844
65	50.746	51.249	49.239	50.746	49.741
70	33.663	35.673	33.161	34.166	33.663
75	21.102	21.102	20.600	20.600	21.102
80	11.054	10.551	10.551	11.054	11.556
85	2.512	2.512	2.010	2.010	3.015
90	0.000	0.000	0.000	0.502	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4DS-P11-8TW-DIM-UNV-LW-OF-WH_4000K.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	275.45	N.A.	26.70
0-30	540.11	N.A.	52.40
0-40	734.15	N.A.	71.20
0-60	952.80	N.A.	92.40
0-80	1026.75	N.A.	99.60
0-90	1031.01	N.A.	100.00
10-90	958.89	N.A.	93.00
20-40	458.70	N.A.	44.50
20-50	588.29	N.A.	57.10
40-70	269.74	N.A.	26.20
60-80	73.95	N.A.	7.20
70-80	22.87	N.A.	2.20
80-90	4.25	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	1031.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.11
10-20	203.34
20-30	264.66
30-40	194.04
40-50	129.59
50-60	89.06
60-70	51.09
70-80	22.87
80-90	4.25
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

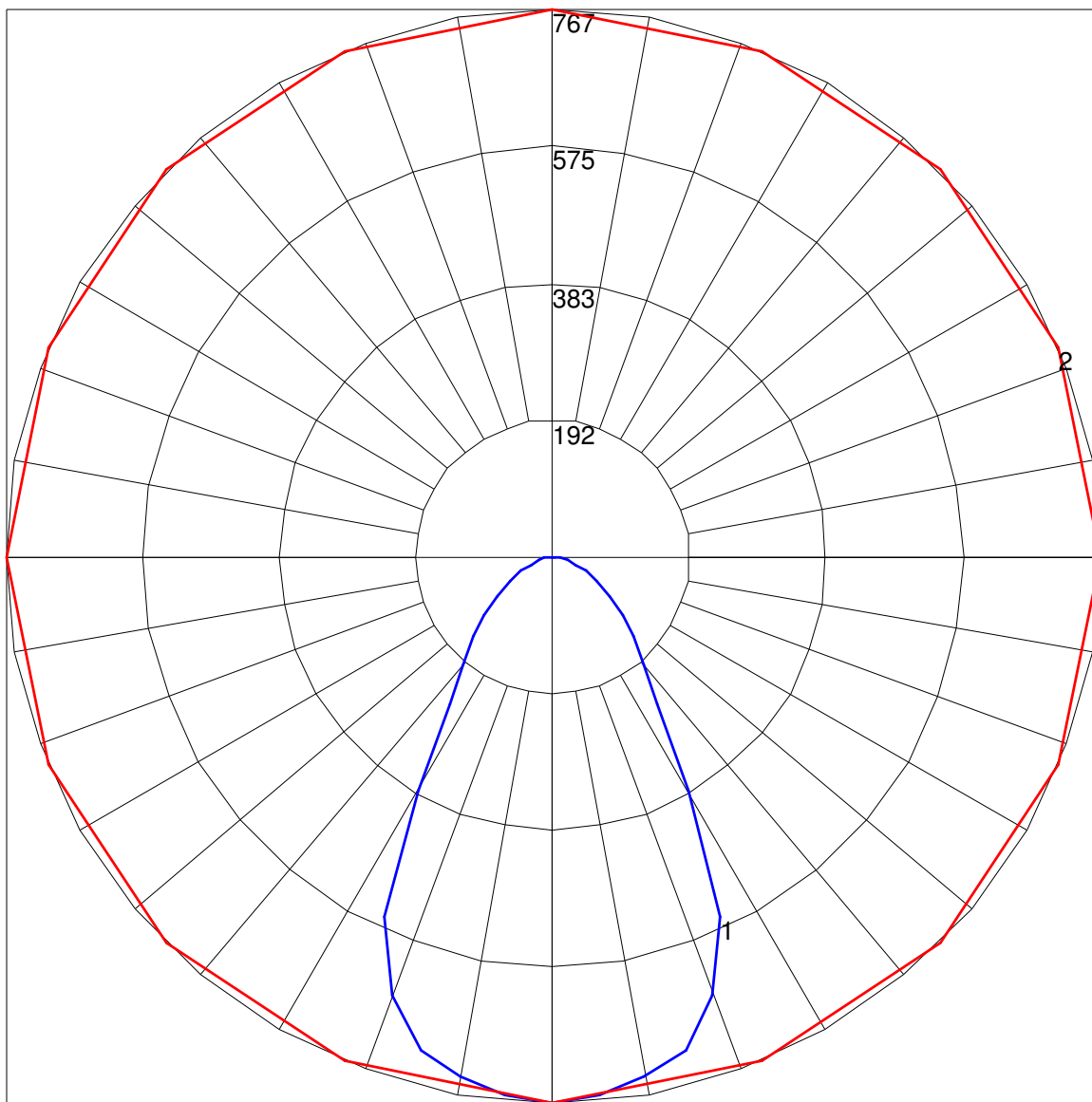
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 766.718 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.)