



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4PS-L20-8TW-DIM-UNV-LW-OF-WH_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20339.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 24-APR-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] GEN7 V18 LED 4"TALL HEATSINK 4"SQ FORMED HOUSING DOWNLIGHT
 [MORE] 4"CAST SHALLOW WHITE FLUSH TRIM w/SOLITE LENS
 [MORE] ADVANCE # XI050C140V054DSM5 @ 1125mA
 [LUMCAT] 4PS-L20-8TW-DIM-UNV-LW-OF-WH
 [LAMPCAT] BXRE-35E4000
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Office, Direct, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2016
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.24
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	44805	69055	43260
55	31635	35527	30392
65	23378	23041	22816
75	16150	15967	15967
85	7085	6540	5450

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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	1134.367	1134.367	1134.367	1134.367	1134.367
5	1133.877	1129.959	1128.000	1127.510	1127.510
10	1120.653	1114.286	1113.306	1109.388	1107.918
15	1093.224	1085.877	1087.837	1084.408	1084.408
20	1065.306	1057.959	1054.041	1057.469	1059.429
25	1022.204	1020.735	1024.653	1019.755	1011.429
30	917.878	942.857	968.816	936.000	891.918
35	726.367	798.857	864.000	788.082	705.796
40	510.857	569.633	701.388	580.408	480.000
45	326.694	370.286	503.510	373.224	315.429
50	240.490	257.143	320.816	259.592	234.122
55	187.102	191.510	210.122	195.429	179.755
60	137.143	141.061	144.980	141.061	137.633
65	101.878	99.918	100.408	103.347	99.429
70	69.551	69.551	66.612	70.041	68.082
75	43.102	43.592	42.612	42.122	42.612
80	23.020	23.020	22.531	21.061	22.531
85	6.367	4.898	5.878	4.898	4.898
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	414.49	N.A.	20.60
0-30	880.34	N.A.	43.70
0-40	1365.07	N.A.	67.70
0-60	1858.38	N.A.	92.20
0-80	2006.85	N.A.	99.60
0-90	2015.83	N.A.	100.00
10-90	1908.57	N.A.	94.70
20-40	950.58	N.A.	47.20
20-50	1265.32	N.A.	62.80
40-70	595.19	N.A.	29.50
60-80	148.47	N.A.	7.40
70-80	46.59	N.A.	2.30
80-90	8.98	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	2015.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.26
10-20	307.23
20-30	465.86
30-40	484.73
40-50	314.73
50-60	178.58
60-70	101.88
70-80	46.59
80-90	8.98
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

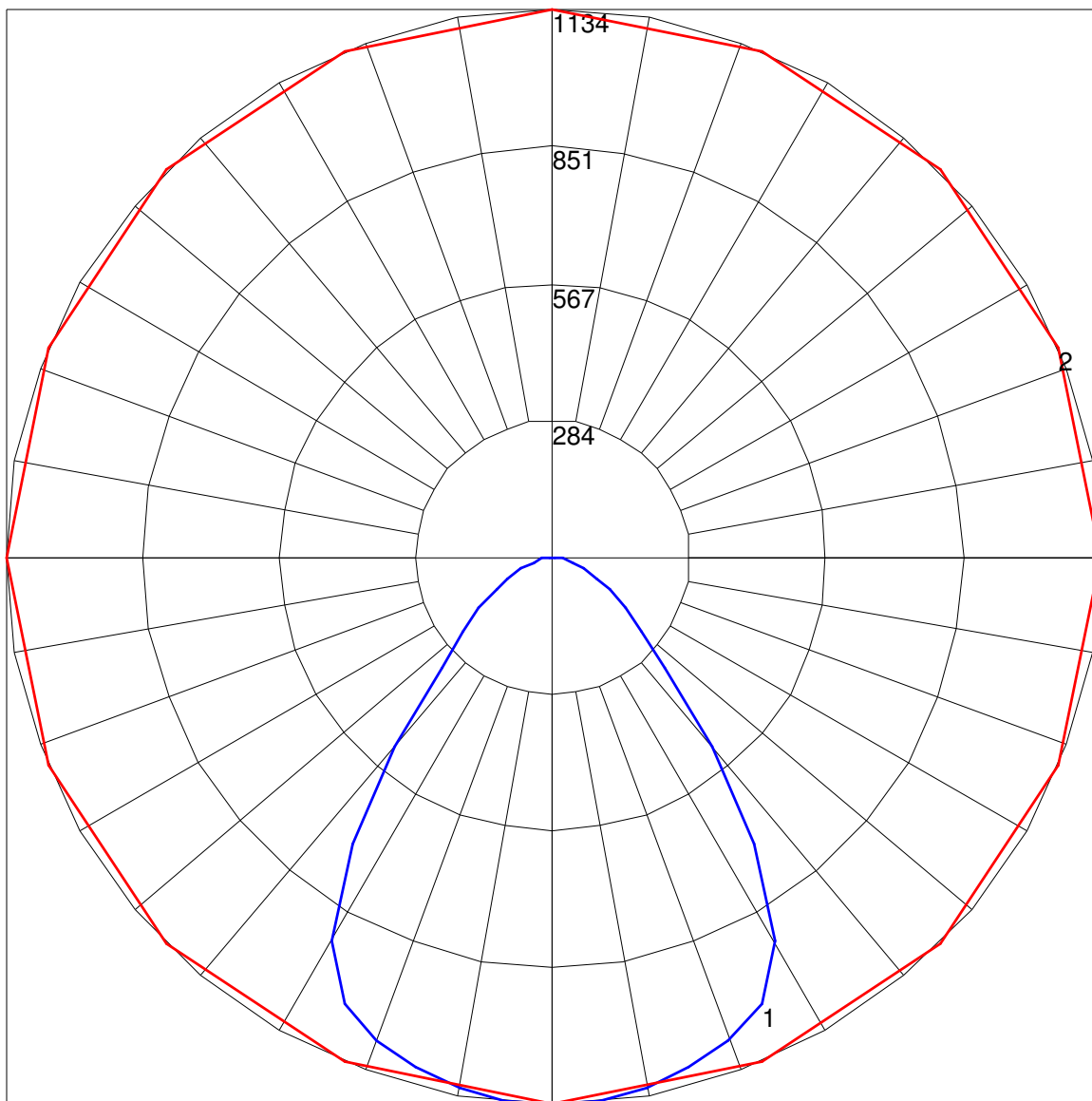
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35

POLAR GRAPH



Maximum Candela = 1134.367 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.)