



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4PS-L20-9DW-DIM-UNV-LW-OF-WH.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-L20-9DW-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	1955
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	37.7
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	43452	66969	41954
55	30679	34454	29474
65	22672	22345	22127
75	15662	15484	15484
85	6871	6342	5285

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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	1100.100	1100.100	1100.100	1100.100	1100.100
5	1099.625	1095.825	1093.925	1093.450	1093.450
10	1086.800	1080.625	1079.675	1075.875	1074.450
15	1060.200	1053.075	1054.975	1051.650	1051.650
20	1033.125	1026.000	1022.200	1025.525	1027.425
25	991.325	989.900	993.700	988.950	980.875
30	890.150	914.375	939.550	907.725	864.975
35	704.425	774.725	837.900	764.275	684.475
40	495.425	552.425	680.200	562.875	465.500
45	316.825	359.100	488.300	361.950	305.900
50	233.225	249.375	311.125	251.750	227.050
55	181.450	185.725	203.775	189.525	174.325
60	133.000	136.800	140.600	136.800	133.475
65	98.800	96.900	97.375	100.225	96.425
70	67.450	67.450	64.600	67.925	66.025
75	41.800	42.275	41.325	40.850	41.325
80	22.325	22.325	21.850	20.425	21.850
85	6.175	4.750	5.700	4.750	4.750
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	401.96	N.A.	20.60
0-30	853.75	N.A.	43.70
0-40	1323.83	N.A.	67.70
0-60	1802.24	N.A.	92.20
0-80	1946.23	N.A.	99.60
0-90	1954.93	N.A.	100.00
10-90	1850.92	N.A.	94.70
20-40	921.87	N.A.	47.20
20-50	1227.09	N.A.	62.80
40-70	577.21	N.A.	29.50
60-80	143.99	N.A.	7.40
70-80	45.18	N.A.	2.30
80-90	8.71	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	1954.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.02
10-20	297.95
20-30	451.78
30-40	470.08
40-50	305.22
50-60	173.18
60-70	98.81
70-80	45.18
80-90	8.71
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

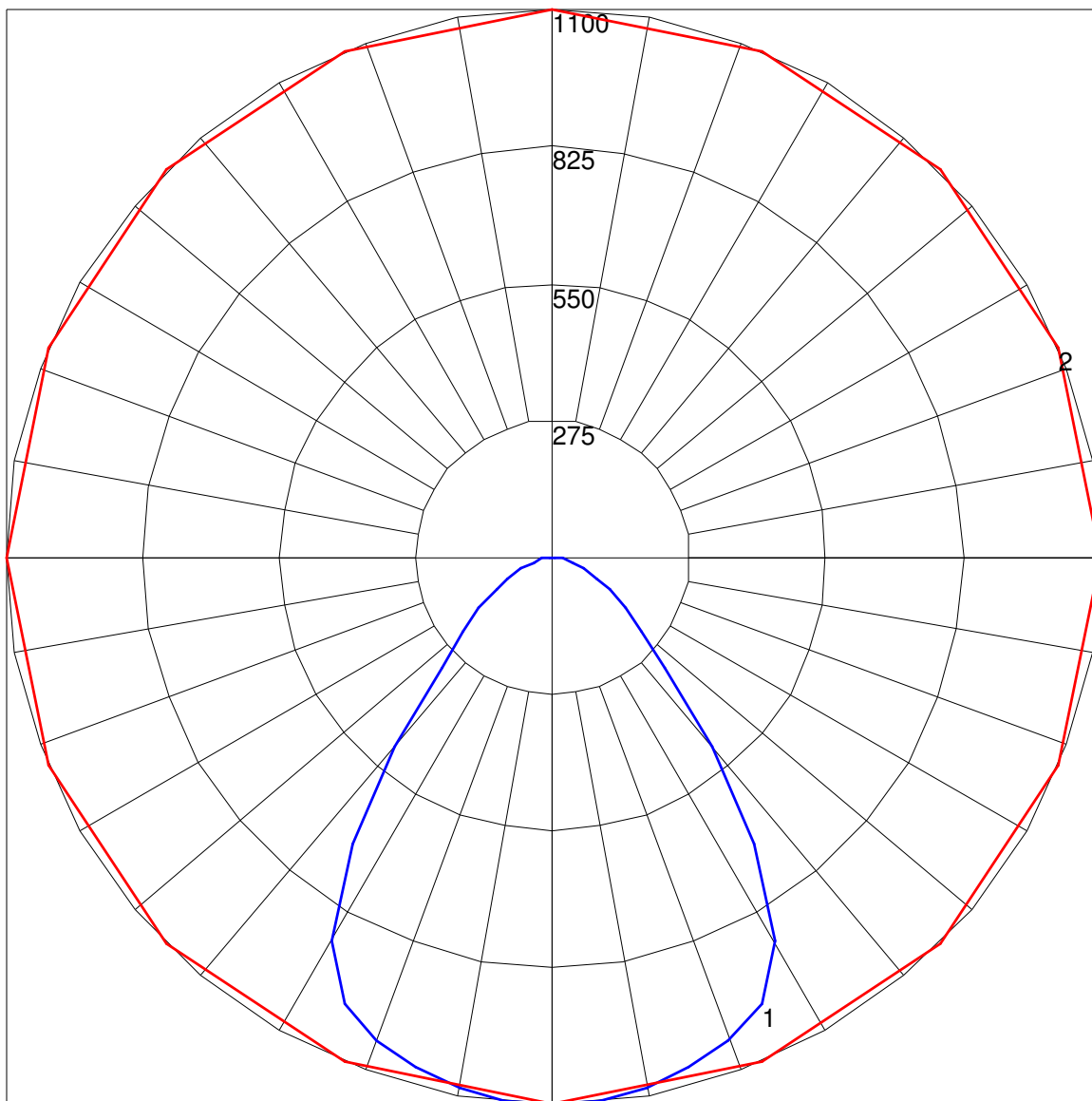
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	57	57	57	57	55	55	55	55	53	53	53	51	51	51	48	48	48	47
1	53	51	50	48	52	50	49	47	48	47	46	46	45	45	45	44	43	42
2	49	46	44	41	48	45	43	41	44	42	40	42	41	39	41	39	38	37
3	46	42	39	36	45	41	38	36	40	37	35	38	36	35	37	36	34	33
4	43	38	34	32	42	37	34	32	36	33	31	35	33	31	34	32	30	30
5	40	35	31	28	39	34	31	28	33	30	28	32	30	28	31	29	27	27
6	37	32	28	25	36	31	28	25	30	27	25	30	27	25	29	27	25	24
7	35	29	26	23	34	29	25	23	28	25	23	27	25	23	27	24	23	22
8	33	27	23	21	32	27	23	21	26	23	21	25	23	21	25	22	21	20
9	31	25	22	19	30	25	21	19	24	21	19	24	21	19	23	21	19	18
10	29	23	20	18	28	23	20	18	23	20	18	22	19	17	22	19	17	17

POLAR GRAPH



Maximum Candela = 1100.1 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.)