



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20341.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 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] ACRYLIC MED TIR OPTIC & 4" CAST SHALLOW WHITE FLUSH TRIM
 [MORE] w/SOLITE LENS ADVANCE #XI050C140V054DSM5 @ 1125mA
 [LUMCAT] 4PS-L20-8TW-DIM-UNV-LM-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	2087
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.60
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	15206	16417	16014
55	8295	9207	8544
65	5404	5854	5854
75	3860	3860	4412
85	546	1638	1092

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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	4485.529	4485.529	4485.529	4485.529	4485.529
5	4337.860	4324.613	4325.595	4328.048	4340.313
10	3844.809	3831.563	3821.261	3829.110	3839.903
15	2969.584	2930.827	2970.075	3002.945	2948.979
20	1885.365	1870.156	1910.385	1851.023	1872.119
25	1027.310	1006.705	1022.895	1043.991	1024.367
30	555.847	526.901	536.223	551.922	554.865
35	299.755	289.943	302.208	310.057	318.398
40	175.634	176.124	181.030	179.068	182.993
45	110.875	111.366	119.706	116.762	116.762
50	72.608	74.571	80.949	78.005	76.043
55	49.060	49.550	54.456	50.532	50.532
60	34.832	35.323	36.795	36.304	35.814
65	23.549	23.549	25.511	24.530	25.511
70	16.680	16.680	17.171	17.171	18.643
75	10.303	9.321	10.303	10.303	11.774
80	5.397	4.906	5.397	5.397	6.378
85	0.491	0.491	1.472	0.981	0.981
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1199.65	N.A.	57.50
0-30	1702.42	N.A.	81.60
0-40	1907.29	N.A.	91.40
0-60	2048.61	N.A.	98.20
0-80	2085.21	N.A.	99.90
0-90	2087.18	N.A.	100.00
10-90	1689.88	N.A.	81.00
20-40	707.64	N.A.	33.90
20-50	801.00	N.A.	38.40
40-70	166.58	N.A.	8.00
60-80	36.61	N.A.	1.80
70-80	11.35	N.A.	0.50
80-90	1.97	N.A.	0.10
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	2087.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	397.30
10-20	802.35
20-30	502.77
30-40	204.86
40-50	93.36
50-60	47.96
60-70	25.26
70-80	11.35
80-90	1.97
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

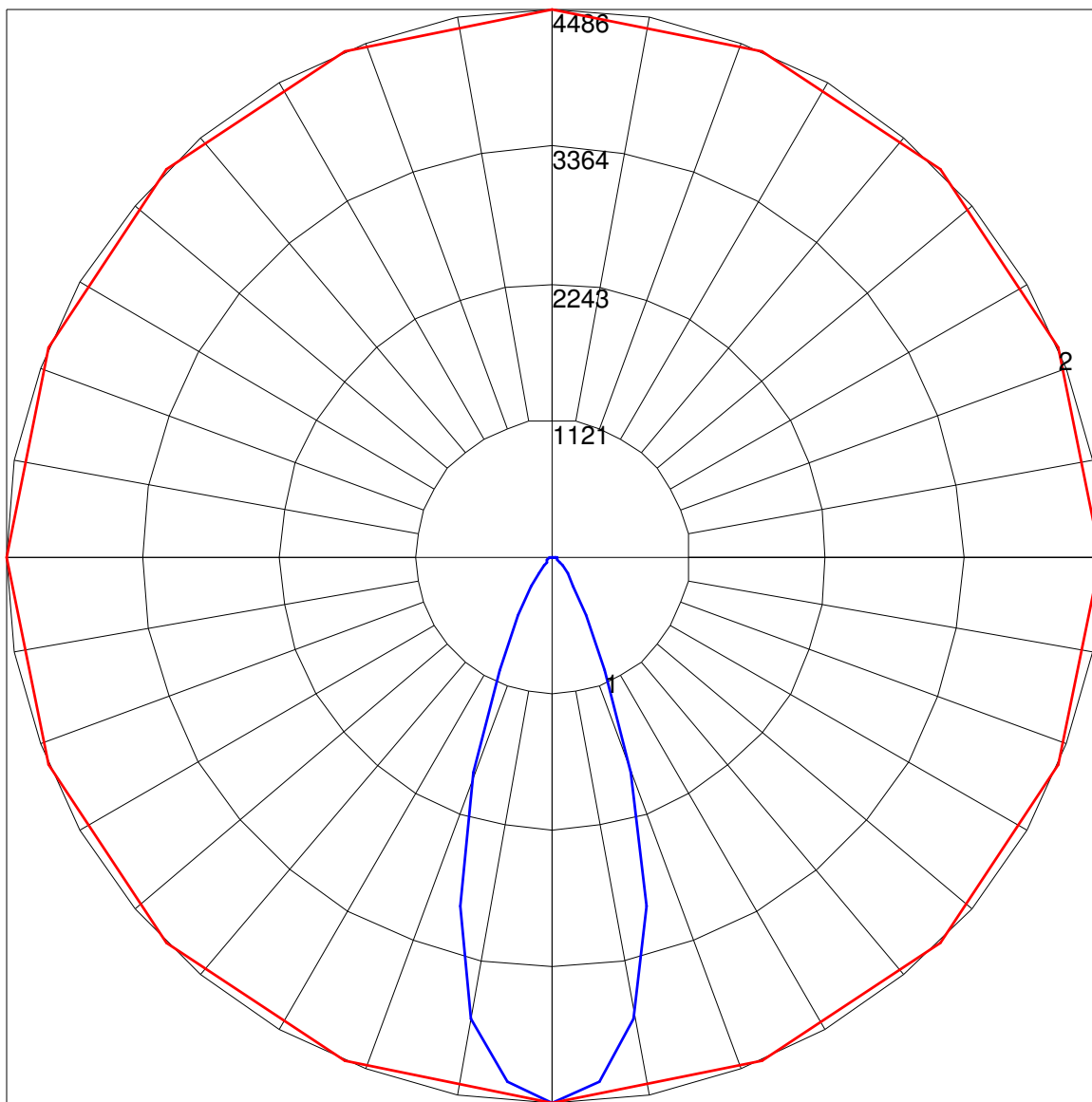
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	100	93	88	84	98	92	87	83	89	85	82	87	84	81	86	83	80	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59

POLAR GRAPH



Maximum Candela = 4485.529 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.)