



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4PS-L15-840-DIM-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] 13-MAY-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4"TALL HEATSINK 4"SQ FORMED HOUSING DOWNLIGHT

[MORE] 4"CAST SHALLOW WHITE FLUSH TRIM w/SOLITE LENS

[LUMCAT] 4PS-L15-840-DIM-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	1581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	17.2
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	35138	54155	33926
55	24809	27861	23835
65	18334	18069	17893
75	12665	12522	12522
85	5556	5128	4274

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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	889.600	889.600	889.600	889.600	889.600
5	889.216	886.143	884.607	884.223	884.223
10	878.845	873.852	873.084	870.011	868.858
15	857.335	851.573	853.110	850.421	850.421
20	835.441	829.679	826.606	829.295	830.831
25	801.639	800.487	803.560	799.718	793.189
30	719.823	739.413	759.771	734.036	699.466
35	569.636	626.485	677.571	618.034	553.504
40	400.627	446.721	550.047	455.171	376.428
45	256.202	290.388	394.866	292.692	247.367
50	188.598	201.658	251.593	203.579	183.605
55	146.730	150.187	164.783	153.260	140.969
60	107.551	110.624	113.697	110.624	107.935
65	79.895	78.359	78.743	81.047	77.974
70	54.544	54.544	52.239	54.928	53.391
75	33.802	34.186	33.418	33.034	33.418
80	18.053	18.053	17.669	16.517	17.669
85	4.993	3.841	4.609	3.841	3.841
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	325.05	N.A.	20.60
0-30	690.39	N.A.	43.70
0-40	1070.52	N.A.	67.70
0-60	1457.39	N.A.	92.20
0-80	1573.82	N.A.	99.60
0-90	1580.86	N.A.	100.00
10-90	1496.75	N.A.	94.70
20-40	745.47	N.A.	47.20
20-50	992.29	N.A.	62.80
40-70	466.76	N.A.	29.50
60-80	116.44	N.A.	7.40
70-80	36.54	N.A.	2.30
80-90	7.04	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	1580.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.11
10-20	240.94
20-30	365.34
30-40	380.14
40-50	246.82
50-60	140.04
60-70	79.90
70-80	36.54
80-90	7.04
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

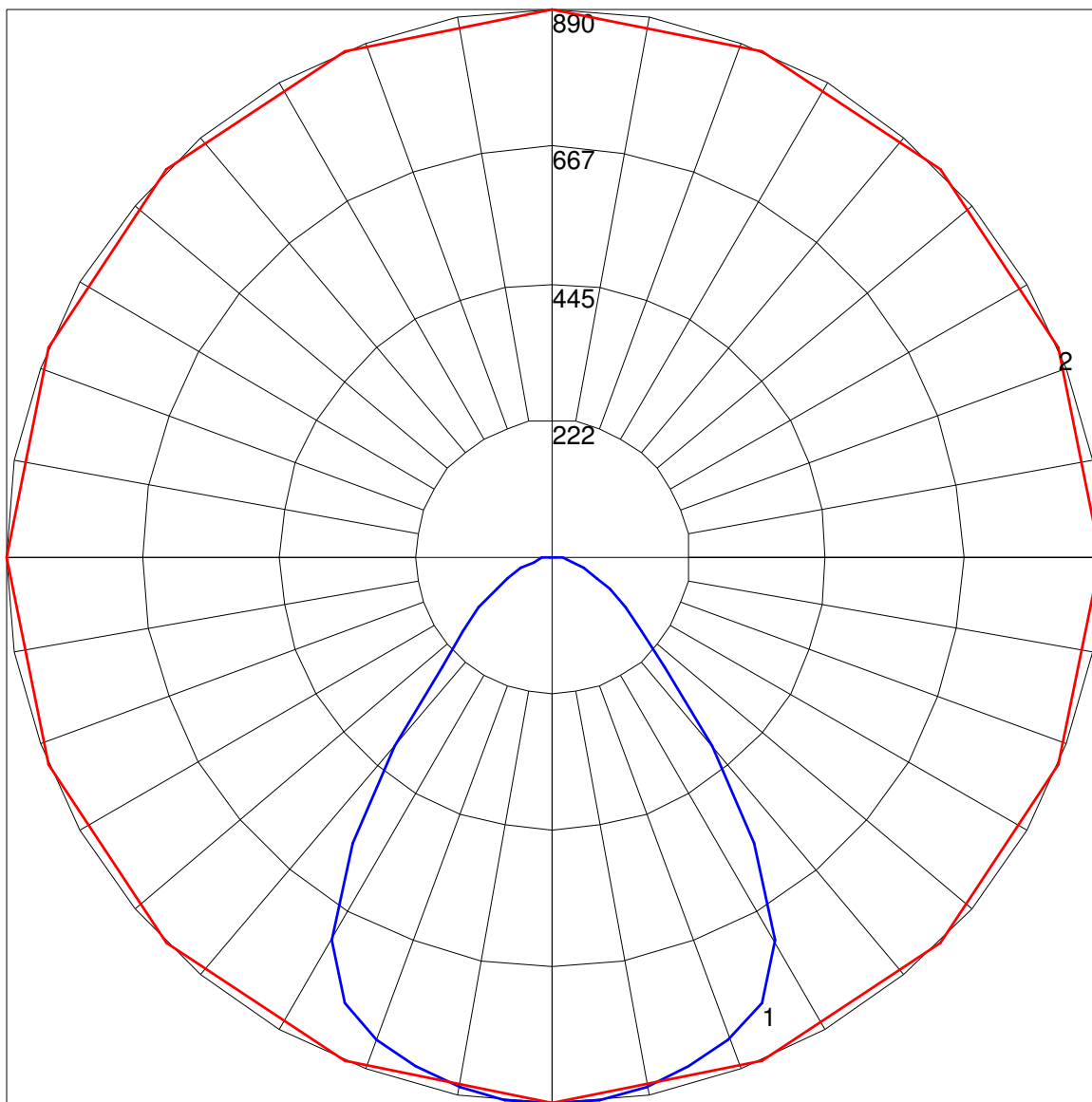
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 889.6 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.)