



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-P21-835-DIM-POE-OM-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20312.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 20-APR-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] GEN7 V13 LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT
 [MORE] ACRYLIC MED TIR OPTIC & 4"SEMI-SPEC TRIM w/FROST FILM
 [MORE] ADVANCE # XI025C070V054DSM1 @ 625mA
 [LUMCAT] 4DS-P21-835-DIM-PoE-OM-OF-CS
 [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	2281
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.70
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	9434	19468	8985
55	1108	1846	1108
65	0	0	0
75	0	0	0
85	0	0	0

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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	4068.457	4068.457	4068.457	4068.457	4068.457
5	3907.946	3894.843	3867.545	3877.372	3868.637
10	3450.436	3436.241	3416.586	3415.494	3424.230
15	2822.587	2798.565	2795.290	2782.187	2790.922
20	2164.166	2141.236	2136.868	2135.776	2153.247
25	1504.652	1523.214	1489.365	1509.020	1494.825
30	927.032	955.421	998.006	963.065	920.480
35	486.992	530.668	608.194	532.852	472.797
40	191.084	245.680	329.757	244.588	184.533
45	68.790	84.077	141.948	98.272	65.515
50	25.114	29.482	41.493	29.482	22.930
55	6.551	9.827	10.919	7.643	6.551
60	0.000	0.000	1.092	1.092	0.000
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1132.61	N.A.	49.60
0-30	1827.27	N.A.	80.10
0-40	2179.64	N.A.	95.50
0-60	2281.28	N.A.	100.00
0-80	2281.42	N.A.	100.00
0-90	2281.42	N.A.	100.00
10-90	1924.92	N.A.	84.40
20-40	1047.02	N.A.	45.90
20-50	1137.86	N.A.	49.90
40-70	101.78	N.A.	4.50
60-80	0.13	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	2281.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	356.49
10-20	776.12
20-30	694.66
30-40	352.37
40-50	90.83
50-60	10.81
60-70	0.13
70-80	0.00
80-90	0.00
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

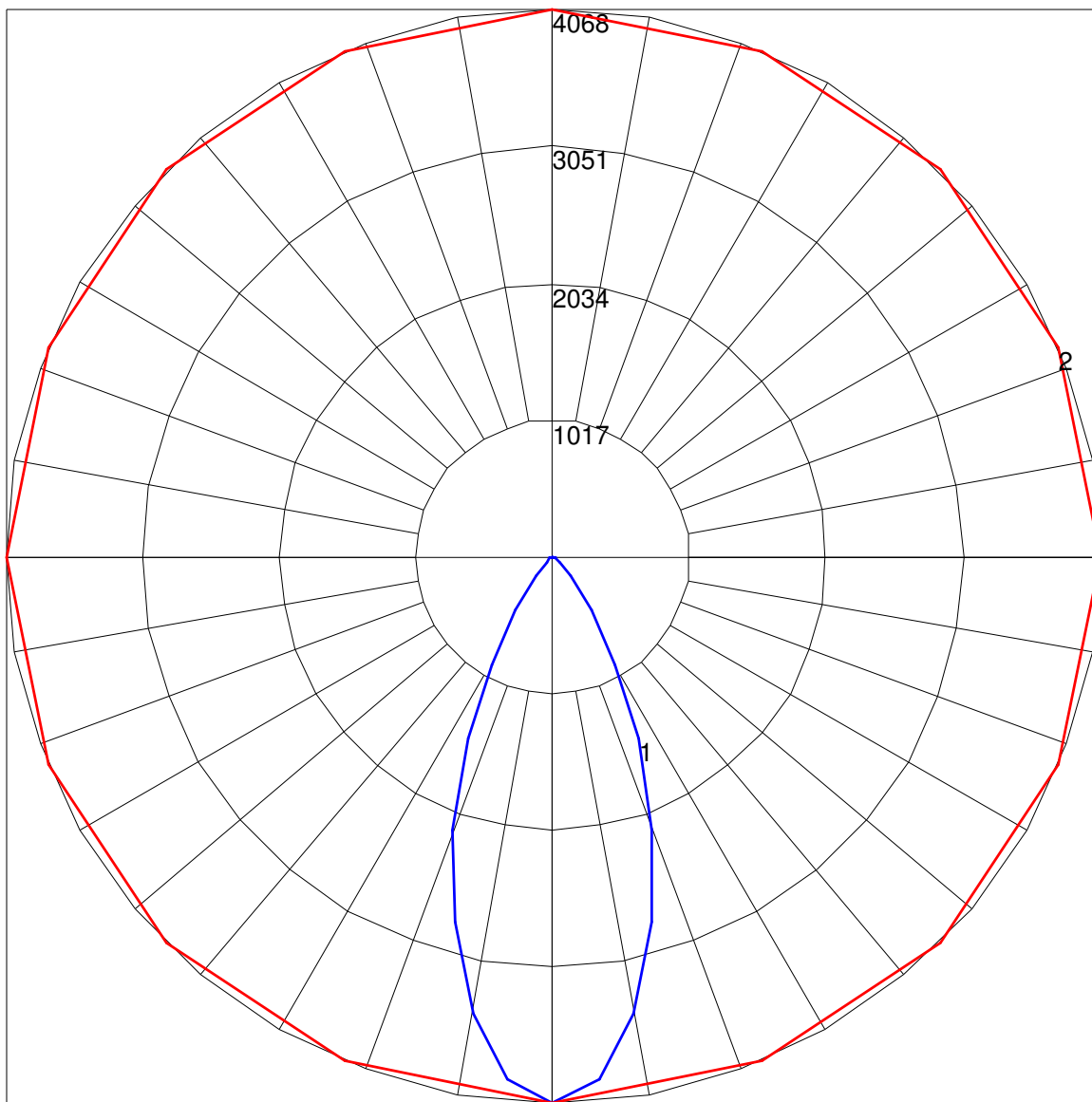
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	130	130	130	130	127	127	127	127	121	121	121	116	116	116	111	111	111	109
1	125	122	119	117	122	119	117	115	115	113	112	111	110	108	107	106	105	103
2	119	114	110	107	117	112	109	106	109	106	103	106	103	101	103	101	99	97
3	114	107	102	98	112	106	101	98	103	99	96	100	97	95	98	95	93	92
4	109	101	96	91	107	100	95	91	98	93	90	96	92	89	94	90	88	86
5	104	96	90	85	102	95	89	85	93	88	84	91	87	84	89	86	83	81
6	99	90	84	80	98	90	84	80	88	83	79	87	82	79	85	81	78	77
7	95	86	80	76	94	85	79	75	84	79	75	82	78	75	81	77	74	73
8	91	81	76	71	90	81	75	71	80	75	71	79	74	71	78	74	70	69
9	87	78	72	68	86	77	71	68	76	71	67	75	71	67	74	70	67	66
10	84	74	68	64	83	74	68	64	73	68	64	72	67	64	71	67	64	62

POLAR GRAPH



Maximum Candela = 4068.457 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.)