



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L16-9TC-DIM-UNV-OW-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20310.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 16-APR-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC -CARTHAGE, MO
 [LUMINAIRE] 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWLIGHT
 [MORE] WHITE MIXING CHAMBER & 4"SEMI-SPEC TRIM w/FROST FILM
 [MORE] ADVANCE #XI025C070V054DSM1 @ 625mA
 [LUMCAT] 4DS-L16-9TC-DIM-UNV-OW-OF-CS
 [LAMPCAT] TUNEABLE COB LED
 [_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	1561
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.86
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	16964	21940	17077
55	3486	4601	3067
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	2006.293	2006.293	2006.293	2006.293	2006.293
5	1949.395	1941.973	1931.253	1931.253	1921.358
10	1781.997	1759.733	1735.819	1734.994	1733.345
15	1588.212	1541.209	1485.135	1505.751	1554.403
20	1391.129	1311.966	1253.418	1293.824	1353.197
25	1142.095	1088.494	1038.193	1058.808	1126.427
30	778.438	803.177	837.811	810.599	788.334
35	434.573	499.718	616.814	501.367	409.835
40	208.628	250.684	357.884	256.456	215.225
45	123.693	125.342	159.976	118.745	124.517
50	69.268	66.794	62.671	63.496	62.671
55	20.615	25.563	27.212	24.739	18.142
60	0.825	2.474	8.246	2.474	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	606.52	N.A.	38.90
0-30	1095.97	N.A.	70.20
0-40	1420.18	N.A.	91.00
0-60	1559.97	N.A.	99.90
0-80	1560.79	N.A.	100.00
0-90	1560.79	N.A.	100.00
10-90	1381.96	N.A.	88.50
20-40	813.66	N.A.	52.10
20-50	927.72	N.A.	59.40
40-70	140.62	N.A.	9.00
60-80	0.83	N.A.	0.10
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	1560.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.83
10-20	427.68
20-30	489.45
30-40	324.21
40-50	114.06
50-60	25.73
60-70	0.83
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

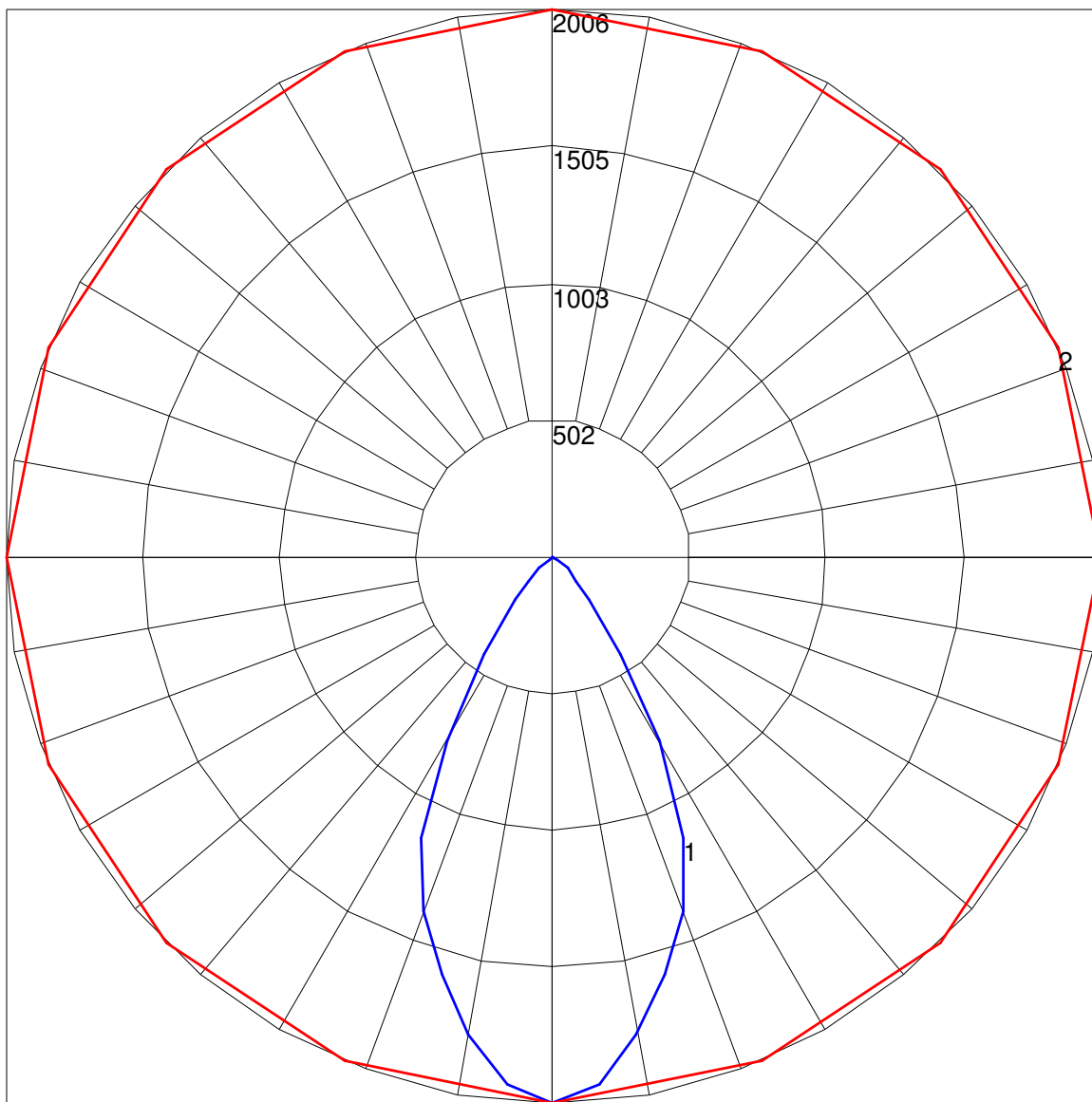
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	80	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	74	65	60	56	64	59	56	64	59	56	63	58	55	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51

POLAR GRAPH



Maximum Candela = 2006.293 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.)