



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L10-835-DIM-UNV-ON-OF-SG_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20313.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 10-MAR-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT

[MORE] ACRYLIC NARROW TIR OPTIC & 4"SEMI-SPEC TRIM w/FROST FILM

[MORE] ADVANCE # XI025C070V054DSM1

[LUMCAT] 4DS-L10-835-DIM-UNV-ON-OF-SG

[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	885
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.66
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	5517	8532	4778
55	421	1122	351
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	1684.984	1684.984	1684.984	1684.984	1684.984
5	1604.944	1604.114	1595.405	1596.650	1604.114
10	1396.343	1390.951	1383.487	1388.878	1390.122
15	1106.457	1096.919	1098.993	1089.869	1094.431
20	812.010	806.619	809.937	809.522	795.007
25	551.985	552.399	539.543	544.520	542.861
30	352.092	350.848	347.116	342.139	335.918
35	198.648	209.845	216.896	199.892	189.524
40	95.384	111.143	122.341	99.531	87.505
45	40.227	47.692	62.207	41.057	34.836
50	10.783	15.759	23.639	13.271	9.538
55	2.488	3.318	6.635	2.903	2.074
60	0.415	0.415	1.244	0.000	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	0.415	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	450.57	N.A.	50.90
0-30	705.40	N.A.	79.70
0-40	838.50	N.A.	94.70
0-60	884.79	N.A.	100.00
0-80	884.96	N.A.	100.00
0-90	884.96	N.A.	100.00
10-90	738.75	N.A.	83.50
20-40	387.93	N.A.	43.80
20-50	429.00	N.A.	48.50
40-70	46.40	N.A.	5.20
60-80	0.17	N.A.	0.00
70-80	0.05	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	884.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.21
10-20	304.36
20-30	254.83
30-40	133.11
40-50	41.07
50-60	5.22
60-70	0.11
70-80	0.05
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

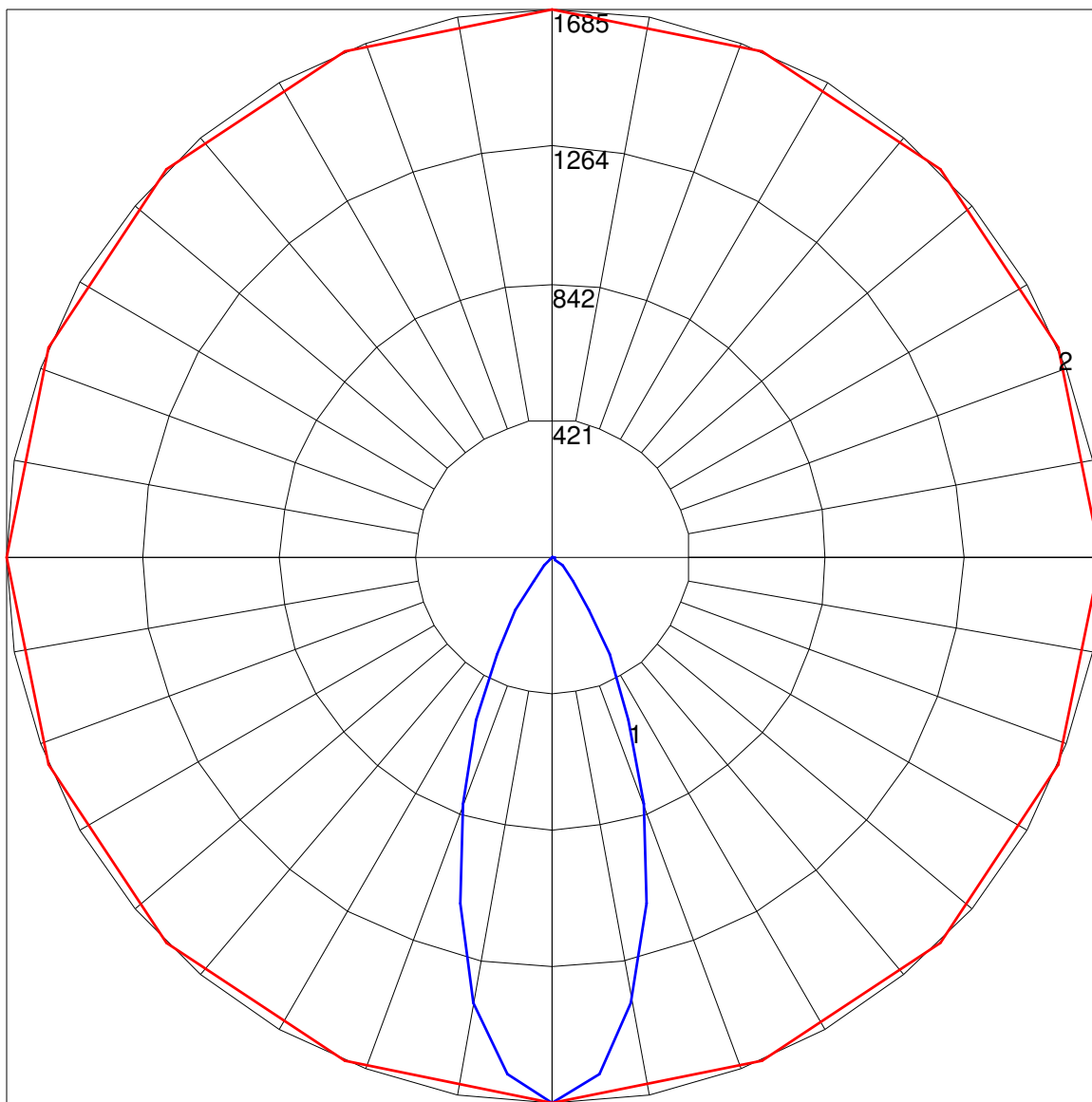
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	78	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	87	79	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58

POLAR GRAPH



Maximum Candela = 1684.984 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.)