



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L15-835-DIM-UNV-OW-OF-SG_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20310.0

[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 DOWLIGHT

[MORE] WHITE MIXING CHAMBER & 4"SEMI-SPEC TRIM w/FROST FILM

[MORE] ADVANCE #XI025C070V054DSM1 @ 625mA

[LUMCAT] 4DS-L15-835-DIM-UNV-OW-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	1157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	17.4
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	12574	16262	12658
55	2583	3410	2273
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 4DS-L15-835-DIM-UNV-OW-OF-SG_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1487.047	1487.047	1487.047	1487.047	1487.047
5	1444.875	1439.374	1431.428	1431.428	1424.094
10	1320.801	1304.299	1286.574	1285.963	1284.740
15	1177.169	1142.331	1100.770	1116.050	1152.110
20	1031.093	972.418	929.023	958.971	1002.978
25	846.511	806.783	769.500	784.780	834.898
30	576.972	595.308	620.978	600.809	584.306
35	322.102	370.387	457.177	371.609	303.766
40	154.633	185.805	265.260	190.083	159.523
45	91.680	92.902	118.573	88.013	92.291
50	51.341	49.507	46.451	47.062	46.451
55	15.280	18.947	20.170	18.336	13.446
60	0.611	1.834	6.112	1.834	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L15-835-DIM-UNV-OW-OF-SG_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	449.54	N.A.	38.90
0-30	812.32	N.A.	70.20
0-40	1052.62	N.A.	91.00
0-60	1156.23	N.A.	99.90
0-80	1156.85	N.A.	100.00
0-90	1156.85	N.A.	100.00
10-90	1024.3	N.A.	88.50
20-40	603.08	N.A.	52.10
20-50	687.62	N.A.	59.40
40-70	104.22	N.A.	9.00
60-80	0.61	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	1156.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.55
10-20	316.99
20-30	362.78
30-40	240.30
40-50	84.54
50-60	19.07
60-70	0.61
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L15-835-DIM-UNV-OW-OF-SG_.IES

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	52	60	56	52	60	55	52	51

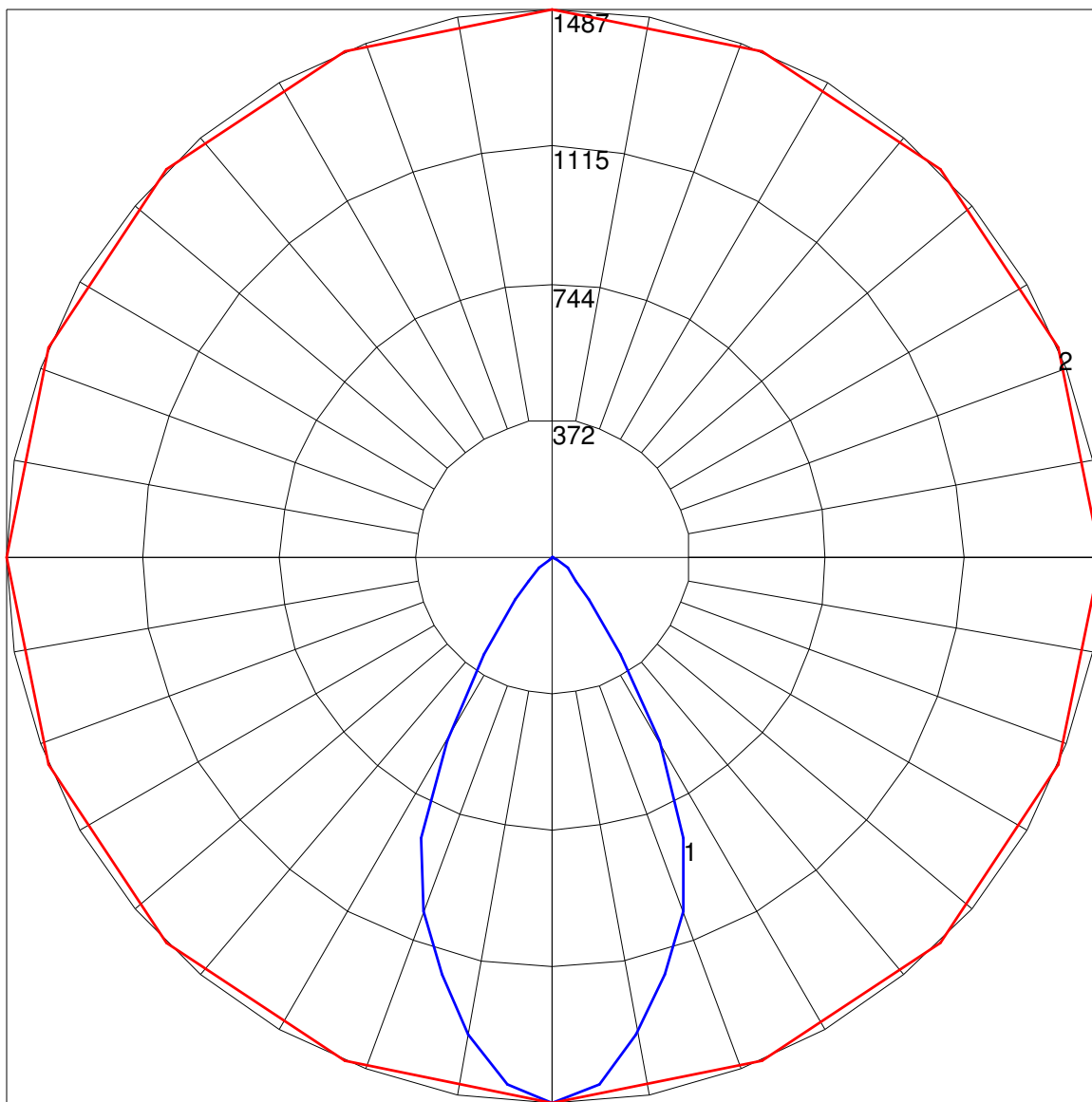
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L15-835-DIM-UNV-OW-OF-SG_.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	4.3	5.3	4.7	5.6	5.9	4.0	5.0	4.3	5.3	5.6
	3H	4.1	5.0	4.5	5.3	5.7	3.8	4.7	4.2	5.0	5.4
	4H	4.0	4.8	4.4	5.2	5.6	3.7	4.5	4.1	4.8	5.2
	6H	3.9	4.7	4.3	5.0	5.4	3.6	4.3	4.0	4.7	5.1
	8H	3.9	4.6	4.3	4.9	5.4	3.5	4.2	4.0	4.6	5.0
	12H	3.8	4.5	4.2	4.8	5.3	3.5	4.1	3.9	4.5	4.9
4H	2H	4.0	4.8	4.4	5.2	5.6	3.7	4.5	4.1	4.9	5.2
	3H	3.8	4.5	4.2	4.9	5.3	3.5	4.1	3.9	4.5	4.9
	4H	3.7	4.3	4.1	4.7	5.2	3.4	3.9	3.8	4.4	4.8
	6H	3.6	4.1	4.1	4.5	5.0	3.3	3.7	3.7	4.2	4.7
	8H	3.5	4.0	4.0	4.4	4.9	3.2	3.6	3.7	4.1	4.6
	12H	3.4	3.8	3.9	4.3	4.8	3.1	3.5	3.6	4.0	4.5
8H	4H	3.5	4.0	4.0	4.4	4.9	3.2	3.6	3.7	4.1	4.6
	6H	3.4	3.8	3.9	4.3	4.7	3.1	3.4	3.6	3.9	4.4
	8H	3.3	3.6	3.8	4.2	4.7	3.0	3.3	3.5	3.8	4.3
	12H	3.3	3.5	3.8	4.0	4.6	2.9	3.2	3.4	3.7	4.3
12H	4H	3.4	3.8	3.9	4.3	4.8	3.1	3.5	3.6	4.0	4.5
	6H	3.3	3.6	3.8	4.1	4.7	3.0	3.3	3.5	3.8	4.3
	8H	3.3	3.5	3.8	4.0	4.6	2.9	3.2	3.4	3.7	4.3

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 1487.047 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.)