



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L15-940-DIM-UNV-OW-OF-WH_.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] 07-01-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC -CARTHAGE, MO 64836

[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-L15-940-DIM-UNV-OW-OF-WH

[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	1160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
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	12607	16305	12691
55	2590	3419	2279
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 4DS-L15-940-DIM-UNV-OW-OF-WH_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1491.009	1491.009	1491.009	1491.009	1491.009
5	1448.723	1443.208	1435.241	1435.241	1427.887
10	1324.320	1307.773	1290.001	1289.388	1288.163
15	1180.305	1145.374	1103.702	1119.022	1155.179
20	1033.839	975.008	931.497	961.526	1005.649
25	848.766	808.932	771.549	786.870	837.122
30	578.509	596.894	622.632	602.409	585.863
35	322.960	371.373	458.395	372.599	304.575
40	155.045	186.299	265.967	190.589	159.948
45	91.924	93.150	118.888	88.247	92.537
50	51.477	49.639	46.575	47.188	46.575
55	15.321	18.998	20.223	18.385	13.482
60	0.613	1.838	6.128	1.838	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-L15-940-DIM-UNV-OW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	450.74	N.A.	38.90
0-30	814.48	N.A.	70.20
0-40	1055.43	N.A.	91.00
0-60	1159.31	N.A.	99.90
0-80	1159.93	N.A.	100.00
0-90	1159.93	N.A.	100.00
10-90	1027.02	N.A.	88.50
20-40	604.68	N.A.	52.10
20-50	689.45	N.A.	59.40
40-70	104.50	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	1159.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.90
10-20	317.84
20-30	363.74
30-40	240.94
40-50	84.77
50-60	19.12
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-L15-940-DIM-UNV-OW-OF-WH_.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	53	60	56	52	60	55	52	51

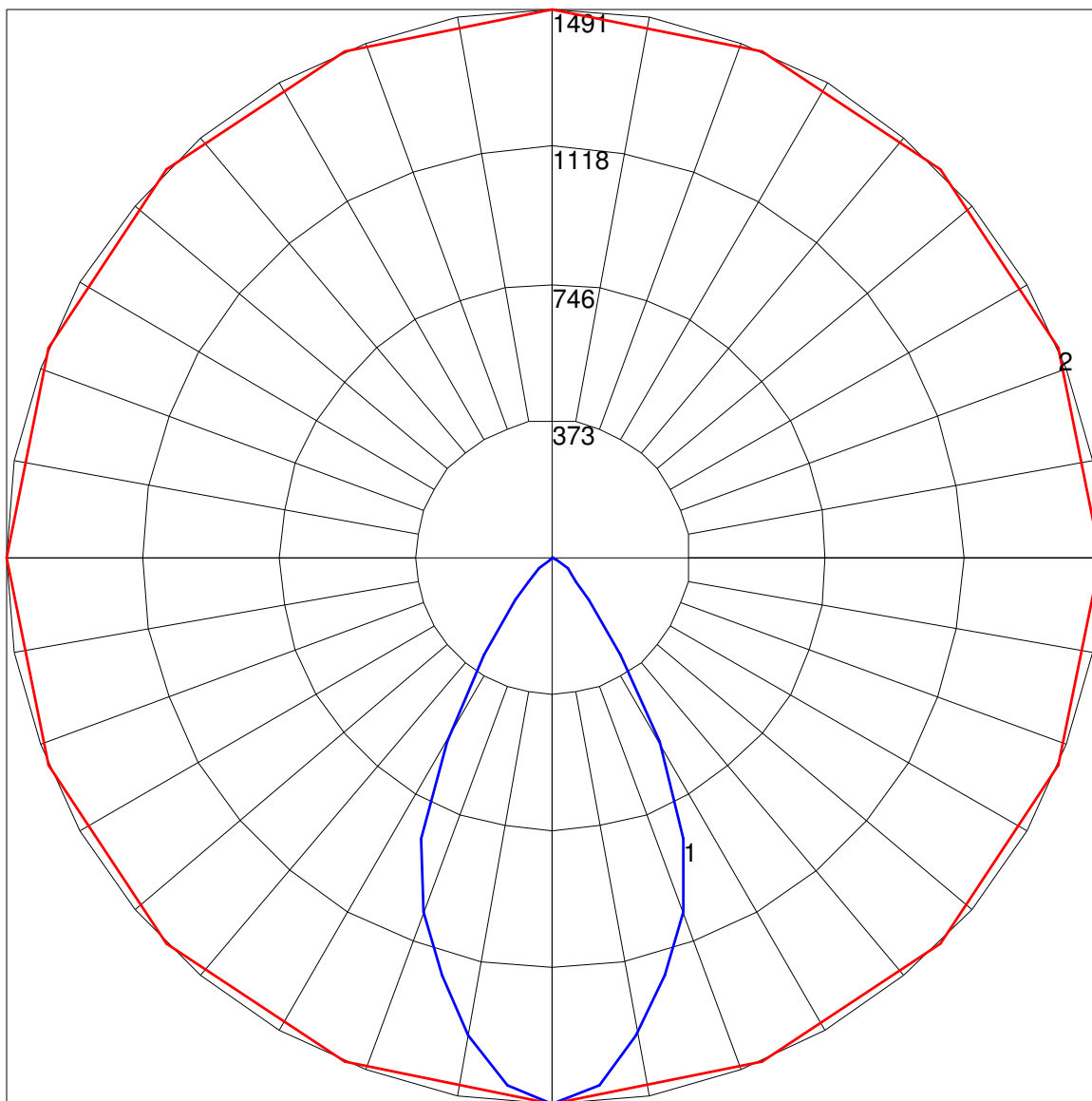
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L15-940-DIM-UNV-OW-OF-WH_.IES

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	4.9	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 = 1491.009 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.)