



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L30-835-EM10W-DIM-UNV-RM-OF-CS_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20323.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 23-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 DIST TIR OPTIC & 4"CAST WHITE REGRESS w/SOLITE
 [MORE] LENS ADVANCE #XI025C070V054DSM1 @ 625MA
 [LUMCAT] 4DS-L30-835-EM10W-DIM-UNV-RM-OF-CS(EMER MODE)
 [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	913
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.56
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	3439	4454	3552
55	2363	2433	2224
65	1604	1509	1604
75	616	462	462
85	0	0	0

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2439.326	2439.326	2439.326	2439.326	2439.326
5	2352.589	2333.679	2325.046	2316.003	2311.892
10	1995.363	2002.763	1985.909	1983.853	1962.888
15	1433.422	1416.157	1425.612	1430.956	1396.837
20	801.187	801.598	829.140	848.872	803.654
25	387.645	391.344	414.365	412.720	395.866
30	173.885	183.751	202.249	202.661	191.150
35	77.282	84.682	104.824	100.303	85.915
40	40.285	43.163	57.140	51.385	45.218
45	25.076	26.309	32.475	29.186	25.898
50	18.498	18.498	20.143	19.321	18.087
55	13.977	14.388	14.388	13.566	13.154
60	9.866	9.866	9.044	9.455	9.044
65	6.988	6.988	6.577	6.988	6.988
70	3.289	3.289	2.878	3.289	2.878
75	1.644	1.644	1.233	2.466	1.233
80	0.822	0.822	0.822	1.233	0.822
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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Zone	Lumens	%Lamp	%Fixt
0-20	598.41	N.A.	65.60
0-30	802.03	N.A.	87.90
0-40	867.69	N.A.	95.10
0-60	904.13	N.A.	99.00
0-80	912.60	N.A.	100.00
0-90	912.85	N.A.	100.00
10-90	701.53	N.A.	76.90
20-40	269.28	N.A.	29.50
20-50	293.12	N.A.	32.10
40-70	42.95	N.A.	4.70
60-80	8.47	N.A.	0.90
70-80	1.96	N.A.	0.20
80-90	0.25	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	912.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	211.33
10-20	387.08
20-30	203.62
30-40	65.67
40-50	23.84
50-60	12.60
60-70	6.51
70-80	1.96
80-90	0.25
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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	78	93	86	81	78	85	80	77	83	80	77	82	79	76	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69
9	84	77	72	69	83	76	72	68	75	71	68	75	71	68	74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64

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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

X=2H	Y=2H	6.9	7.9	7.3	8.2	8.5	6.6	7.5	6.9	7.8	8.1
	3H	7.5	8.4	7.9	8.7	9.1	7.2	8.0	7.6	8.3	8.7
	4H	7.6	8.3	8.0	8.7	9.1	7.2	8.0	7.6	8.4	8.8
	6H	7.6	8.3	8.0	8.6	9.0	7.3	7.9	7.7	8.3	8.7
	8H	7.5	8.2	8.0	8.6	9.0	7.2	7.9	7.6	8.3	8.7
	12H	7.5	8.1	7.9	8.5	8.9	7.2	7.8	7.6	8.2	8.6

UGR Viewed Endwise

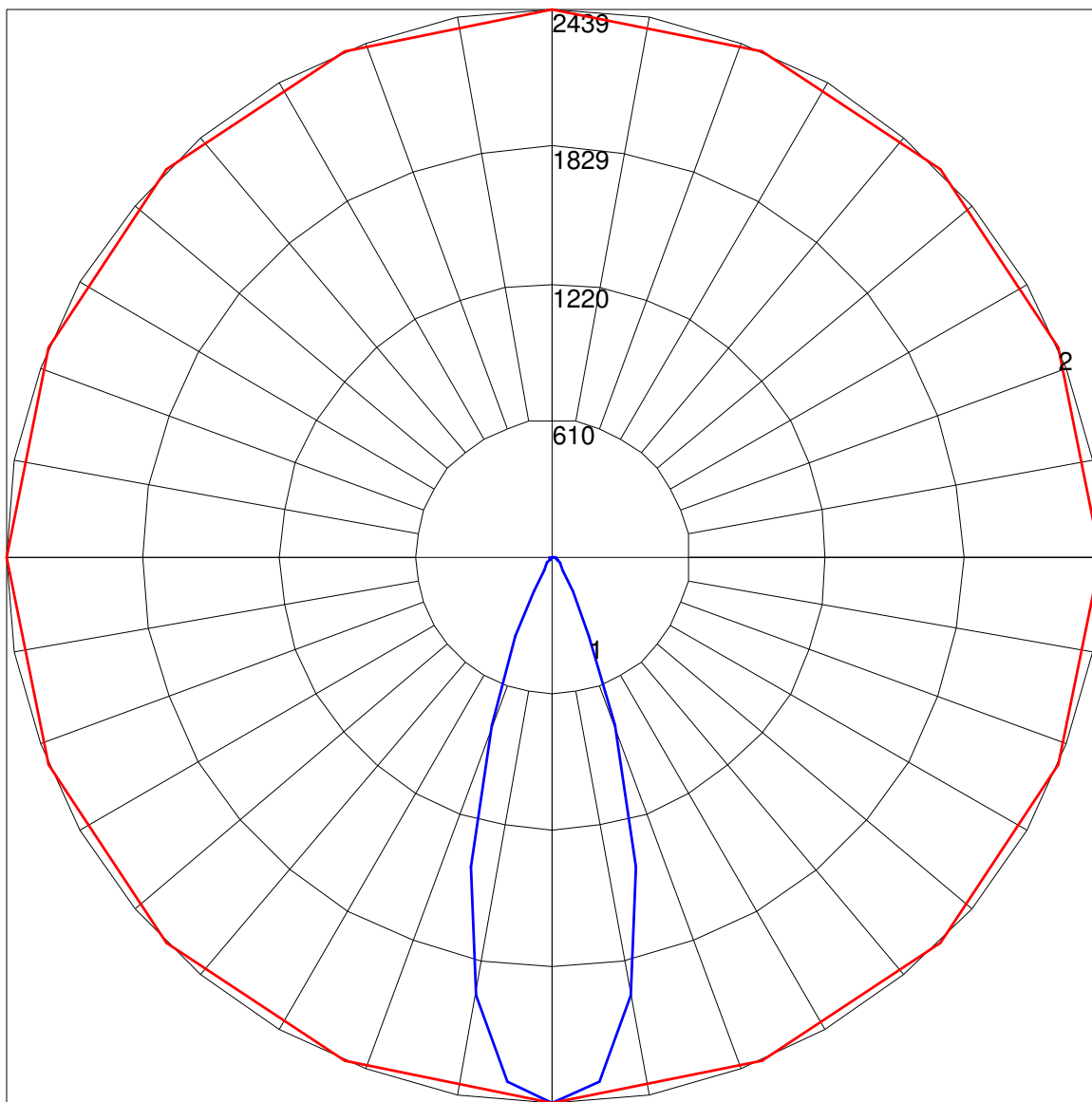
4H	2H	7.1	7.9	7.5	8.2	8.6	6.8	7.6	7.2	7.9	8.3
	3H	7.8	8.4	8.2	8.8	9.2	7.5	8.1	7.9	8.5	8.9
	4H	7.8	8.4	8.3	8.8	9.3	7.6	8.2	8.1	8.6	9.1
	6H	7.9	8.3	8.3	8.8	9.3	7.7	8.2	8.2	8.7	9.1
	8H	7.8	8.2	8.3	8.7	9.2	7.7	8.1	8.2	8.6	9.1
	12H	7.7	8.1	8.2	8.6	9.1	7.6	8.0	8.1	8.5	9.0
8H	4H	7.7	8.2	8.2	8.6	9.1	7.5	8.0	8.0	8.4	8.9
	6H	7.8	8.1	8.3	8.6	9.1	7.7	8.0	8.2	8.5	9.0
	8H	7.7	8.1	8.3	8.6	9.1	7.7	8.0	8.2	8.5	9.0
	12H	7.7	8.0	8.2	8.5	9.0	7.7	7.9	8.2	8.4	9.0
12H	4H	7.7	8.1	8.2	8.6	9.0	7.5	7.9	8.0	8.4	8.8
	6H	7.7	8.0	8.3	8.5	9.1	7.6	7.9	8.2	8.4	9.0
	8H	7.7	8.0	8.3	8.5	9.1	7.7	7.9	8.2	8.4	9.0

Maximum UGR = 9.3

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POLAR GRAPH



Maximum Candela = 2439.326 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.)