



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L10-840-DIM-UNV-LW-OF-WH-WET-CC_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-MARCH-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6"SQ CAST HOUSING LED DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"CAST WHITE FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L10-840-DIM-UNV-LW-OF-WH-WET-CC

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	889
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	10.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8276	9551	8094
55	6449	6609	6385
65	4485	4485	4354
75	2844	2773	2702
85	633	422	844

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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	600.225	600.225	600.225	600.225	600.225
5	601.936	598.941	598.941	598.513	599.797
10	596.374	593.807	593.380	591.241	594.663
15	588.246	583.968	580.545	578.834	580.545
20	559.154	565.144	568.139	560.438	553.165
25	489.848	503.538	540.331	508.672	491.987
30	365.782	408.564	461.185	411.558	366.210
35	224.175	269.951	361.504	254.978	225.031
40	169.415	186.100	247.705	178.827	167.276
45	136.045	144.174	157.008	140.323	133.051
50	109.093	113.799	117.221	111.232	109.093
55	85.991	85.991	88.130	86.419	85.135
60	62.461	62.889	62.033	62.033	63.317
65	44.065	44.065	44.065	43.637	42.782
70	29.091	28.664	26.952	28.236	28.664
75	17.113	16.685	16.685	16.257	16.257
80	9.412	8.556	8.128	8.128	8.128
85	1.283	1.711	0.856	1.283	1.711
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	221.05	N.A.	24.90
0-30	450.39	N.A.	50.70
0-40	630.85	N.A.	71.00
0-60	823.36	N.A.	92.60
0-80	885.80	N.A.	99.70
0-90	888.81	N.A.	100.00
10-90	831.80	N.A.	93.60
20-40	409.80	N.A.	46.10
20-50	524.52	N.A.	59.00
40-70	236.56	N.A.	26.60
60-80	62.44	N.A.	7.00
70-80	18.38	N.A.	2.10
80-90	3.01	N.A.	0.30
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	888.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.01
10-20	164.04
20-30	229.34
30-40	180.46
40-50	114.72
50-60	77.79
60-70	44.06
70-80	18.38
80-90	3.01
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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	58	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	71	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

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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	16.4	17.7	16.8	18.0	18.3	16.4	17.7	16.8	18.0	18.3
	3H	17.4	18.6	17.8	18.9	19.2	17.4	18.5	17.7	18.8	19.2
	4H	17.7	18.7	18.1	19.1	19.5	17.6	18.7	18.0	19.0	19.4
	6H	17.8	18.8	18.3	19.2	19.6	17.7	18.7	18.2	19.1	19.5
	8H	17.9	18.8	18.3	19.2	19.6	17.7	18.7	18.2	19.1	19.5
	12H	17.8	18.7	18.3	19.1	19.5	17.7	18.6	18.1	19.0	19.4

UGR Viewed Endwise

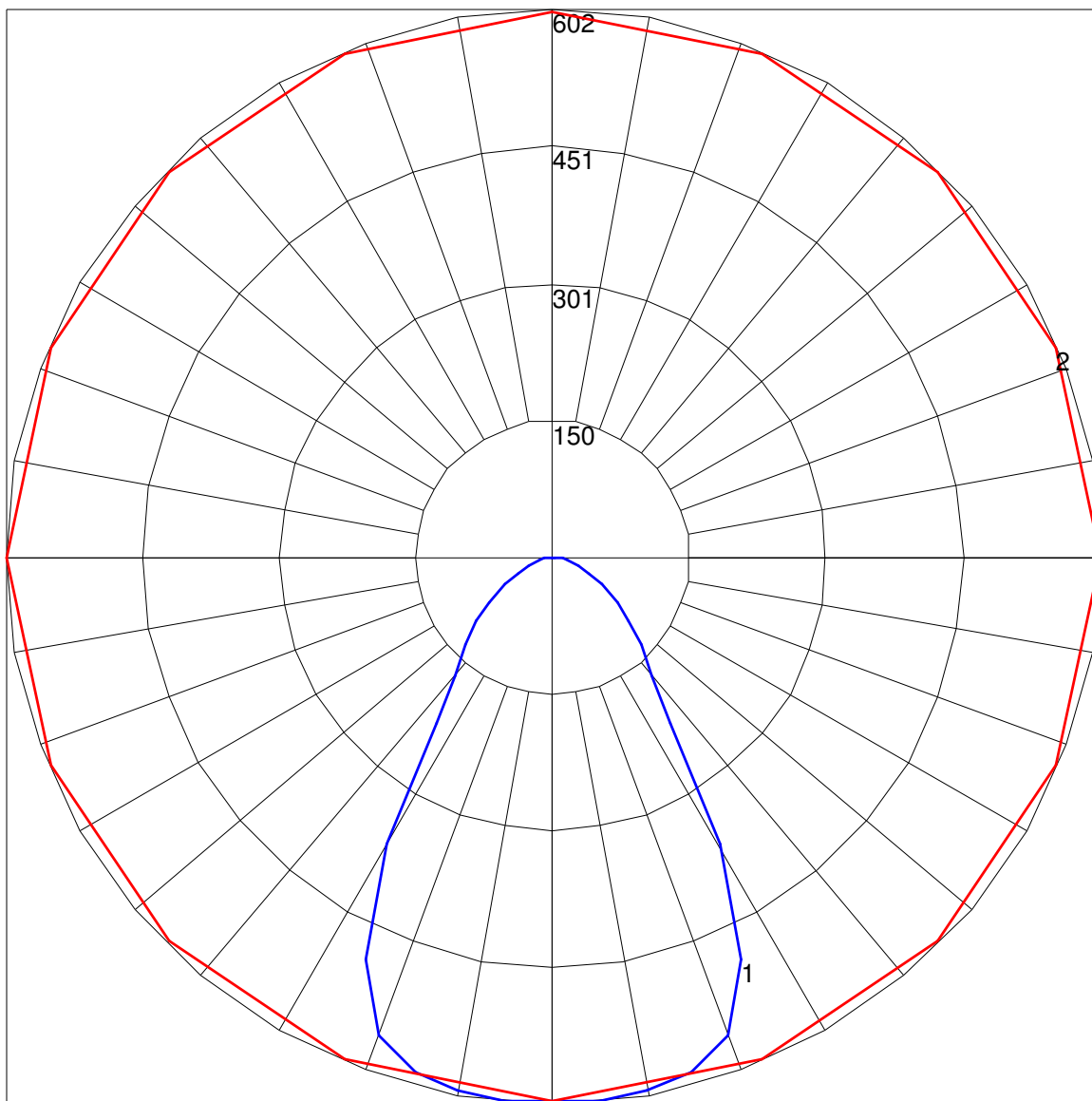
4H	2H	16.7	17.8	17.2	18.2	18.5	16.7	17.8	17.1	18.1	18.5
	3H	17.9	18.8	18.3	19.2	19.6	17.8	18.7	18.2	19.1	19.5
	4H	18.2	19.0	18.7	19.4	19.9	18.2	18.9	18.6	19.4	19.8
	6H	18.5	19.1	18.9	19.6	20.0	18.4	19.0	18.8	19.5	19.9
	8H	18.5	19.1	18.9	19.6	20.0	18.4	19.0	18.8	19.4	19.9
	12H	18.5	19.0	19.0	19.5	20.0	18.4	18.9	18.8	19.4	19.9

8H	4H	18.3	18.9	18.7	19.4	19.8	18.2	18.9	18.7	19.3	19.8
	6H	18.6	19.1	19.1	19.6	20.1	18.5	19.0	19.0	19.5	20.0
	8H	18.6	19.1	19.2	19.6	20.1	18.5	19.0	19.0	19.5	20.0
	12H	18.6	19.0	19.2	19.5	20.1	18.5	18.9	19.0	19.4	20.0

12H	4H	18.3	18.8	18.8	19.3	19.8	18.2	18.8	18.7	19.2	19.7
	6H	18.6	19.0	19.1	19.5	20.0	18.5	18.9	19.0	19.4	19.9
	8H	18.6	19.0	19.2	19.5	20.1	18.5	18.9	19.0	19.4	20.0

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 601.936 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)