



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L20-840-EM10W-DIM-UNV-RW-OF-CS-WET-CC_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20354.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 12-30-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT
 [MORE] WHITE MIXING CHAMBER & 6"SEMI SPEC REGRESS TRIM w/SOLITE
 [MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA
 [LUMCAT] 6DS-L20-840-EM10W-DIM-UNV-R-W-OF-CS -WETCC (EMER MODE)
 [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	894
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
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	7808	9064	7781
55	5924	5654	5823
65	4066	3654	3974
75	1790	1939	1716
85	664	664	664

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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	635.494	635.494	635.494	635.494	635.494
5	635.045	634.596	632.352	632.352	632.352
10	629.660	627.864	627.416	627.864	625.621
15	614.401	615.747	615.747	615.298	610.810
20	585.678	590.166	598.244	591.961	582.985
25	512.075	533.169	560.096	539.003	512.973
30	388.657	433.536	484.250	429.497	374.295
35	222.602	274.214	384.169	277.804	229.334
40	161.566	179.069	246.389	178.172	162.913
45	128.355	136.434	149.000	133.741	127.907
50	100.081	105.467	105.018	104.569	102.325
55	78.988	75.846	75.398	78.988	77.642
60	58.792	57.446	55.651	57.895	56.997
65	39.943	37.699	35.904	38.596	39.045
70	21.542	21.542	21.542	21.093	20.645
75	10.771	11.220	11.669	9.873	10.322
80	5.386	5.386	5.386	5.834	4.937
85	1.346	1.346	1.346	1.795	1.346
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	233.38	N.A.	26.10
0-30	474.17	N.A.	53.00
0-40	661.01	N.A.	73.90
0-60	840.93	N.A.	94.10
0-80	891.82	N.A.	99.70
0-90	894.09	N.A.	100.00
10-90	833.81	N.A.	93.30
20-40	427.64	N.A.	47.80
20-50	537.10	N.A.	60.10
40-70	218.05	N.A.	24.40
60-80	50.89	N.A.	5.70
70-80	12.76	N.A.	1.40
80-90	2.27	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	894.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.28
10-20	173.10
20-30	240.79
30-40	186.85
40-50	109.46
50-60	70.46
60-70	38.13
70-80	12.76
80-90	2.27
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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40

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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	15.7	17.0	16.1	17.3	17.6	UGR Viewed Endwise	15.8	17.1	16.2	17.4	17.7
	3H	16.5	17.6	16.9	17.9	18.3		16.5	17.6	16.9	18.0	18.3
	4H	16.6	17.6	17.0	18.0	18.4		16.6	17.7	17.0	18.0	18.4
	6H	16.7	17.6	17.1	18.0	18.4		16.7	17.6	17.1	18.0	18.4
	8H	16.6	17.5	17.1	17.9	18.3		16.7	17.5	17.1	17.9	18.3
	12H	16.6	17.5	17.0	17.8	18.3		16.6	17.5	17.1	17.9	18.3

4H	2H	15.9	17.0	16.3	17.3	17.7	16.0	17.1	16.4	17.4	17.8
	3H	16.8	17.7	17.2	18.1	18.5	16.9	17.7	17.3	18.1	18.5
	4H	17.0	17.8	17.5	18.2	18.6	17.0	17.8	17.4	18.2	18.6
	6H	17.1	17.7	17.6	18.2	18.7	17.1	17.7	17.5	18.2	18.6
	8H	17.1	17.7	17.6	18.1	18.6	17.1	17.7	17.6	18.1	18.6
	12H	17.1	17.6	17.5	18.1	18.5	17.0	17.6	17.5	18.1	18.5

8H	4H	17.0	17.6	17.5	18.1	18.5	17.0	17.6	17.5	18.1	18.5
	6H	17.1	17.6	17.6	18.1	18.6	17.1	17.6	17.6	18.1	18.6
	8H	17.1	17.6	17.7	18.1	18.6	17.1	17.6	17.7	18.1	18.6
	12H	17.1	17.5	17.6	18.0	18.6	17.1	17.5	17.7	18.0	18.6

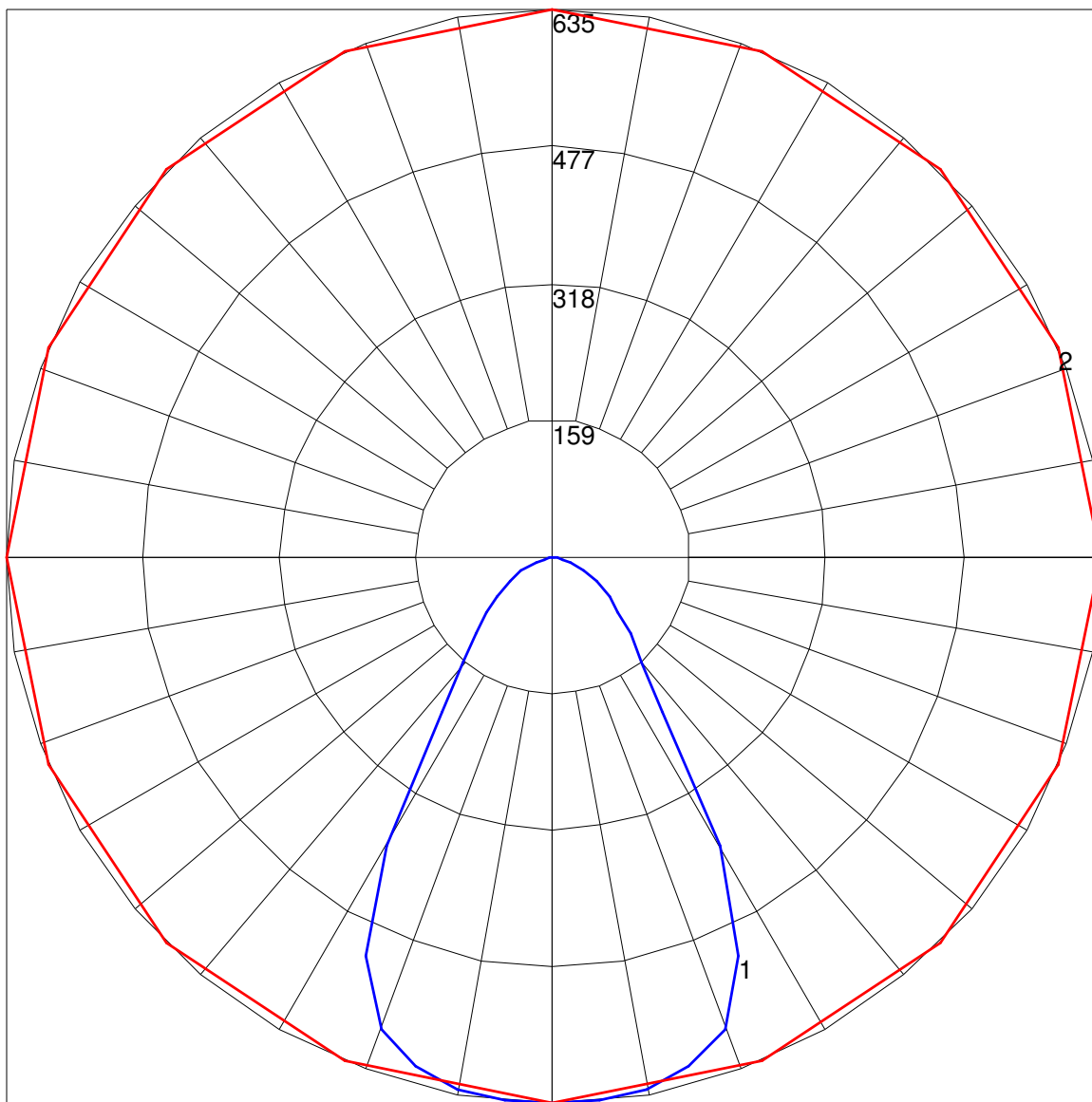
12H	4H	17.0	17.5	17.5	18.0	18.5	17.0	17.5	17.5	18.0	18.5
	6H	17.1	17.5	17.6	18.0	18.5	17.1	17.5	17.6	18.0	18.5
	8H	17.1	17.5	17.6	18.0	18.6	17.1	17.5	17.6	18.0	18.6

Maximum UGR = 18.7

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POLAR GRAPH



Maximum Candela = 635.494 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.)