



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L20-8TW-DIM-UNV-LW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20316.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-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] WHITE MIXING CHAMBER & 4"CAST WHITE FLUSH w/SOLITE LENS

[MORE] ADVANCE # XI025C070V054DSMI @ 625mA

[LUMCAT] 4DS-L20-8TW-DIM-UNV-L-W-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	1820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	1.04
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	38563	41848	38198
55	28794	29544	28644
65	20558	19947	20150
75	13959	13627	13959
85	4935	3948	5922

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L20-8TW-DIM-UNV-LW-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	1353.562	1353.562	1353.562	1353.562	1353.562
5	1341.144	1342.031	1341.144	1342.031	1342.031
10	1309.212	1310.099	1314.534	1323.404	1325.178
15	1264.862	1274.619	1283.489	1291.472	1291.472
20	1159.309	1197.450	1221.399	1218.738	1194.789
25	981.909	1042.225	1111.411	1048.434	984.570
30	668.798	773.464	922.480	769.029	649.284
35	444.387	494.059	675.894	492.285	435.517
40	346.817	366.331	428.421	361.009	337.060
45	281.179	292.710	305.128	287.388	278.518
50	222.637	237.716	235.055	228.846	221.750
55	170.304	174.739	174.739	173.852	169.417
60	125.067	127.728	126.841	126.841	125.067
65	89.587	90.474	86.926	89.587	87.813
70	59.429	62.977	58.542	60.316	59.429
75	37.254	37.254	36.367	36.367	37.254
80	19.514	18.627	18.627	19.514	20.401
85	4.435	4.435	3.548	3.548	5.322
90	0.000	0.000	0.000	0.887	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L20-8TW-DIM-UNV-LW-OF-WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.28	N.A.	26.70
0-30	953.51	N.A.	52.40
0-40	1296.07	N.A.	71.20
0-60	1682.07	N.A.	92.40
0-80	1812.62	N.A.	99.60
0-90	1820.13	N.A.	100.00
10-90	1692.83	N.A.	93.00
20-40	809.78	N.A.	44.50
20-50	1038.57	N.A.	57.10
40-70	476.19	N.A.	26.20
60-80	130.56	N.A.	7.20
70-80	40.37	N.A.	2.20
80-90	7.51	N.A.	0.40
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	1820.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.31
10-20	358.97
20-30	467.23
30-40	342.55
40-50	228.78
50-60	157.22
60-70	90.19
70-80	40.37
80-90	7.51
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

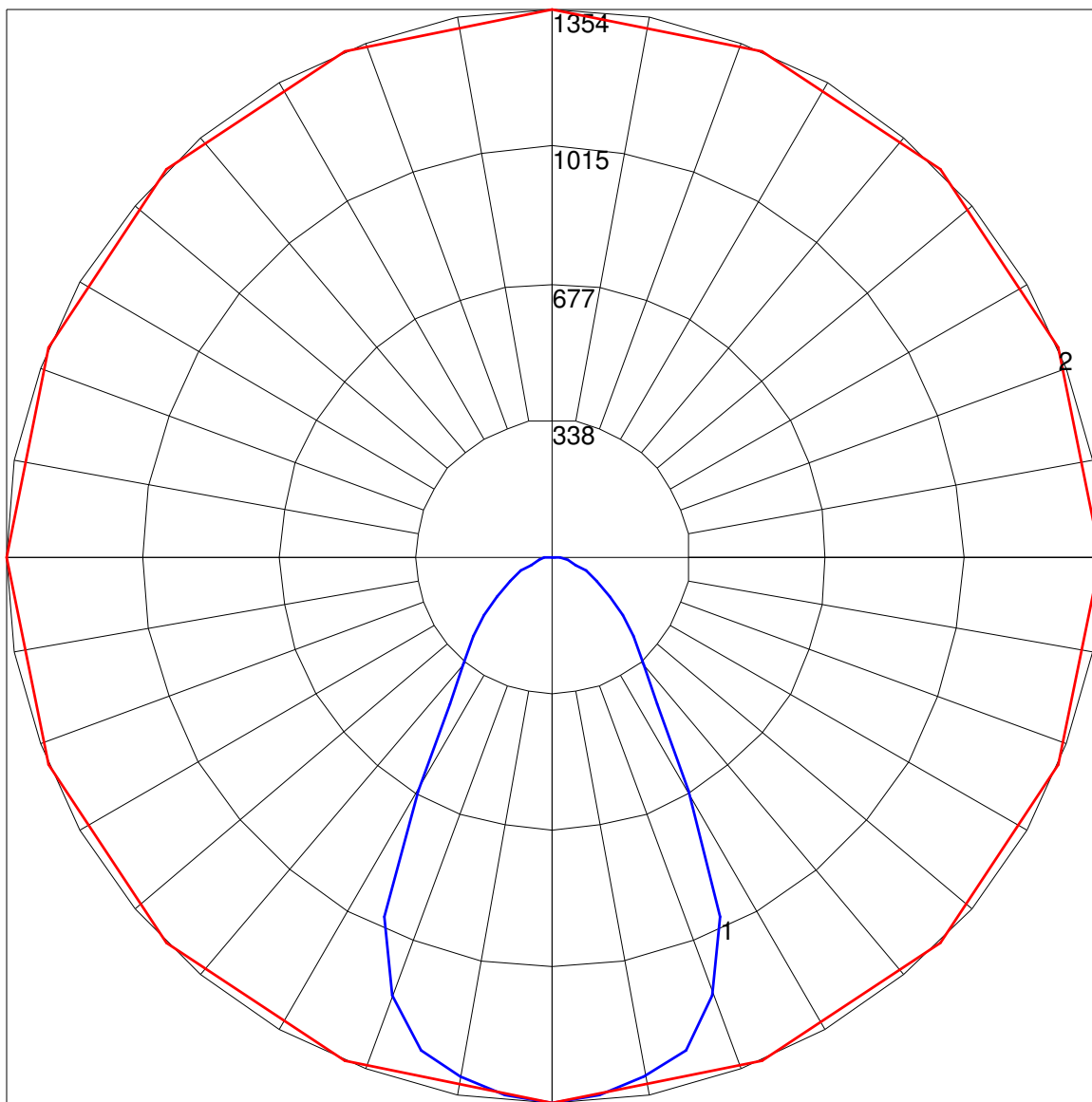
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L20-8TW-DIM-UNV-LW-OF-WH.IES

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

POLAR GRAPH



Maximum Candela = 1353.562 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.)