



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L20-8TW-DIM-UNV-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20351.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 27-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] ACRYLIC MED TIR OPTIC & 6"CAST WHITE FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L20-8TW-DIM-UNV-LM-OF-WH

[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	2027
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.54
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	3147	4487	3555
55	2515	2515	2371
65	2048	1853	1950
75	1433	1115	1274
85	0	0	0

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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	5545.862	5545.862	5545.862	5545.862	5545.862
5	5279.538	5291.992	5290.076	5292.950	5324.564
10	4538.046	4452.784	4475.776	4475.776	4540.920
15	3178.644	3168.106	3144.156	3080.928	3124.996
20	1807.746	1863.310	1795.292	1702.366	1554.834
25	893.814	912.016	884.234	821.964	764.484
30	416.730	430.142	433.016	378.410	342.964
35	202.138	208.844	228.962	194.474	162.860
40	98.674	112.086	122.624	99.632	86.220
45	51.732	68.018	73.766	64.186	58.438
50	47.900	48.858	49.816	46.942	44.068
55	33.530	33.530	33.530	32.572	31.614
60	25.866	24.908	25.866	25.866	24.908
65	20.118	20.118	18.202	20.118	19.160
70	13.412	13.412	13.412	13.412	13.412
75	8.622	7.664	6.706	7.664	7.664
80	3.832	3.832	2.874	3.832	3.832
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1335.17	N.A.	65.90
0-30	1770.58	N.A.	87.40
0-40	1912.05	N.A.	94.30
0-60	1997.89	N.A.	98.60
0-80	2025.64	N.A.	100.00
0-90	2026.61	N.A.	100.00
10-90	1547.15	N.A.	76.30
20-40	576.88	N.A.	28.50
20-50	631.59	N.A.	31.20
40-70	105.13	N.A.	5.20
60-80	27.74	N.A.	1.40
70-80	8.46	N.A.	0.40
80-90	0.98	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	2026.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	479.46
10-20	855.71
20-30	435.41
30-40	141.47
40-50	54.71
50-60	31.14
60-70	19.28
70-80	8.46
80-90	0.98
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

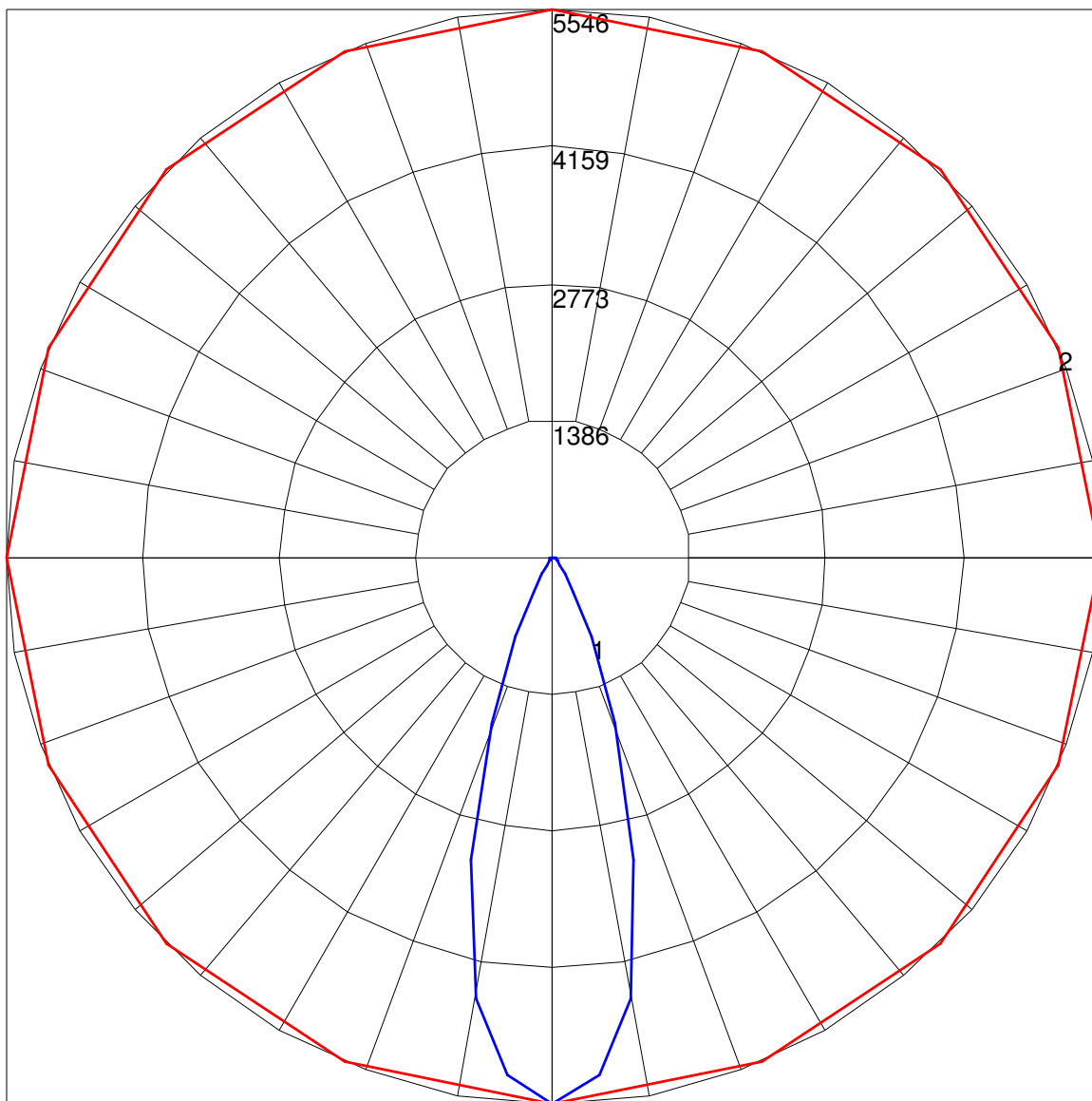
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	111	111	111	111	106	106	106	102	102	102	98	98	98	96
1	110	107	105	103	107	105	103	102	101	100	98	98	97	96	94	94	93	91
2	105	101	98	95	103	99	96	94	96	94	92	94	92	90	91	89	88	87
3	101	96	92	88	99	94	91	88	92	89	86	90	87	85	88	86	84	82
4	97	91	86	83	95	90	86	83	88	84	82	86	83	81	84	82	80	79
5	93	87	82	79	92	86	82	78	84	80	78	83	79	77	81	79	76	75
6	90	83	78	75	89	82	78	75	81	77	74	80	76	74	78	75	73	72
7	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
8	84	76	72	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66
9	81	73	69	66	80	73	69	66	72	68	65	71	68	65	71	67	65	64
10	78	71	66	63	77	70	66	63	70	66	63	69	65	63	68	65	63	62

POLAR GRAPH



Maximum Candela = 5545.862 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.)