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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN from BALLABS TEST NO. 20312.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 20-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 TIR OPTIC & 4"SEMI-SPEC TRIM w/FROST FILM
[MORE] ADVANCE # XI025C070V054DSM1 @ 625mA
[LUMCAT] 4DS-L20-8TW-DIM-UNV-OM-OF-CS
[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	1853
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.70
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	7664	15815	7299
55	900	1500	900
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3304.962	3304.962	3304.962	3304.962	3304.962
5	3174.573	3163.929	3141.754	3149.737	3142.641
10	2802.920	2791.389	2775.423	2774.536	2781.632
15	2292.895	2273.381	2270.720	2260.076	2267.172
20	1758.034	1739.407	1735.859	1734.972	1749.164
25	1222.286	1237.365	1209.868	1225.834	1214.303
30	753.063	776.125	810.718	782.334	747.741
35	395.602	431.082	494.059	432.856	384.071
40	155.225	199.575	267.874	198.688	149.903
45	55.881	68.299	115.310	79.830	53.220
50	20.401	23.949	33.706	23.949	18.627
55	5.322	7.983	8.870	6.209	5.322
60	0.000	0.000	0.887	0.887	0.000
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
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	920.06	N.A.	49.60
0-30	1484.36	N.A.	80.10
0-40	1770.6	N.A.	95.50
0-60	1853.17	N.A.	100.00
0-80	1853.28	N.A.	100.00
0-90	1853.28	N.A.	100.00
10-90	1563.69	N.A.	84.40
20-40	850.54	N.A.	45.90
20-50	924.33	N.A.	49.90
40-70	82.68	N.A.	4.50
60-80	0.11	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	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	1853.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	289.59
10-20	630.47
20-30	564.30
30-40	286.24
40-50	73.79
50-60	8.78
60-70	0.11
70-80	0.00
80-90	0.00
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	106	106	106	106	103	103	103	103	99	99	99	94	94	94	91	91	91	89
1	101	99	97	95	99	97	95	94	93	92	91	90	89	88	87	86	85	84
2	97	93	89	87	95	91	88	86	88	86	84	86	84	82	83	82	80	79
3	92	87	83	80	91	86	82	79	84	81	78	82	79	77	80	77	76	74
4	88	82	78	74	87	81	77	74	79	76	73	78	75	72	76	73	71	70
5	84	78	73	69	83	77	72	69	75	71	69	74	71	68	72	70	67	66
6	81	73	69	65	79	73	68	65	71	67	65	70	67	64	69	66	64	63
7	77	70	65	61	76	69	65	61	68	64	61	67	63	61	66	63	60	59
8	74	66	61	58	73	66	61	58	65	61	58	64	60	57	63	60	57	56
9	71	63	58	55	70	63	58	55	62	58	55	61	57	55	60	57	54	53
10	68	60	55	52	67	60	55	52	59	55	52	58	55	52	58	54	52	51

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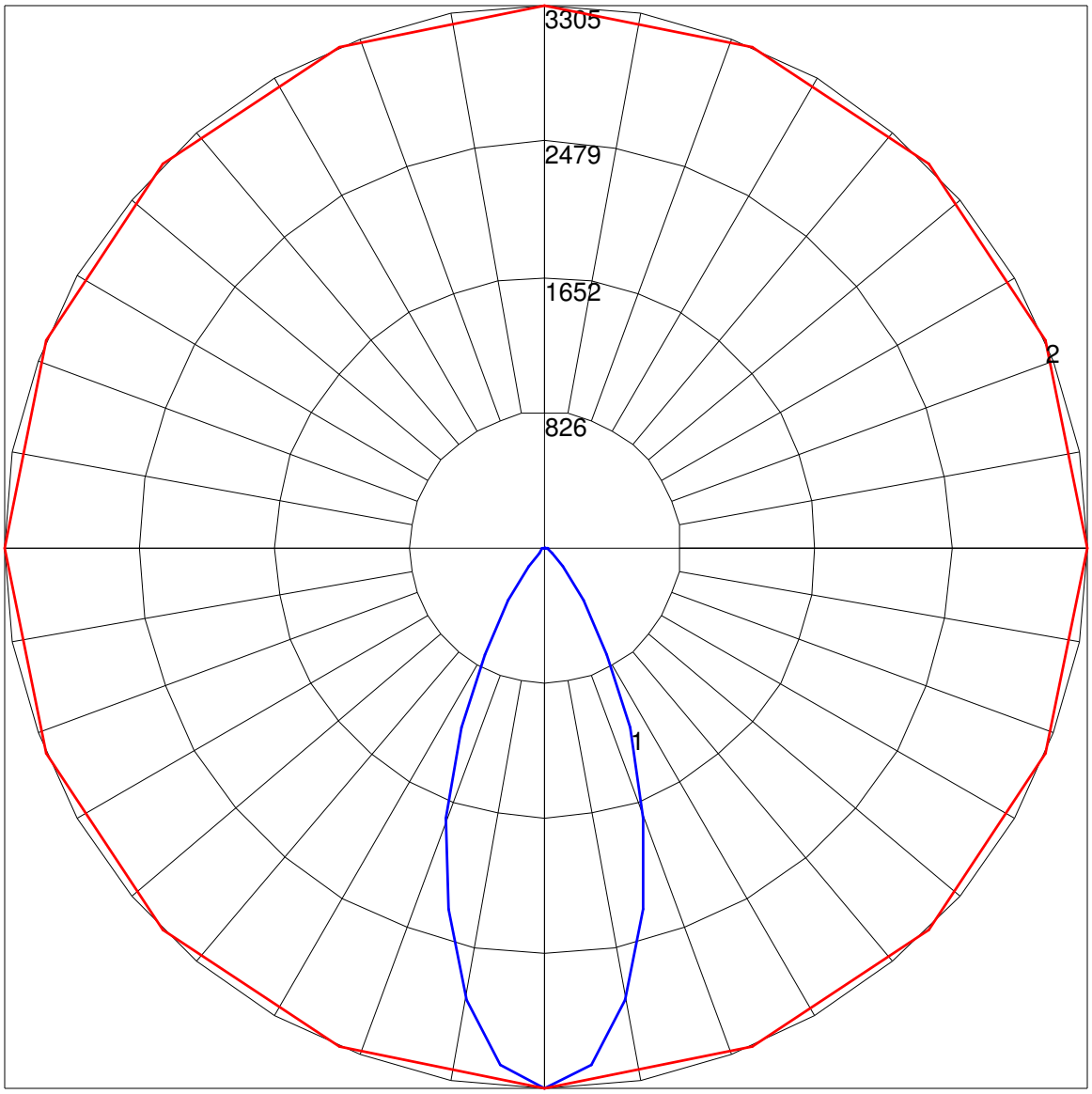
POLAR GRAPH



Maximum Candela = 3304.962 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.)