



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DR-TL-L30-835-DIM-UNV-AWW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia see: www.ltioptics.com/ies
[ISSUEDATE] 03-05-2024
[TESTDATE]
[TEST] H. E. WILLIAMS PHOTOMETRIC REPORT #W00532
[MANUFAC] H. E. WILLIAMS, INC.
[LUMINAIRE] 4DR-TL-L30/835-AWW-OF-CS-DIM-UNV
[LAMP] LED 32.1W Vero COB array
[LAMPCAT] BXRC-35E4000
[OTHER] THIS DATA IS BASED ON IN-HOUSE COMPUTER
[OTHER] SIMULATIONS AND IS PROVIDED AS A GOOD-FAITH
[OTHER] ESTIMATE OF PHOTOMETRIC PERFORMANCE.

CHARACTERISTICS

Lumens Per Lamp	3577 (1 lamp)
Total Lamp Lumens	3577
Luminaire Lumens	1485
Total Luminaire Efficiency	42 %
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>	<u>112</u>	<u>135</u>	<u>157</u>	<u>180</u>
0	1353.54	1353.54	1353.54	1353.54	1353.54	1353.54	1353.54	1353.54	1353.54
5	1331.10	1329.06	1343.34	1352.52	1319.88	1306.62	1319.88	1306.62	1278.06
10	1275.00	1247.46	1283.16	1280.10	1292.34	1267.86	1247.46	1235.22	1239.30
15	1166.88	1166.88	1171.98	1180.14	1192.38	1166.88	1125.06	1111.80	1099.56
20	1058.76	970.02	1003.68	1012.86	1010.82	994.50	965.94	944.52	925.14
25	767.04	757.86	779.28	778.26	783.36	770.10	740.52	705.84	693.60
30	574.26	576.30	594.66	596.70	594.66	552.84	505.92	465.12	450.84
35	480.42	478.38	481.44	477.36	456.96	401.88	343.74	299.88	293.76
40	418.20	422.28	418.20	405.96	366.18	307.02	246.84	202.98	189.72
45	373.32	371.28	359.04	334.56	282.54	222.36	165.24	131.58	121.38
50	327.42	321.30	302.94	266.22	211.14	149.94	102.00	76.50	68.34
55	269.28	262.14	239.70	197.88	143.82	90.78	56.10	37.74	34.68
60	202.98	197.88	174.42	135.66	84.66	48.96	26.52	20.40	19.38
65	142.80	136.68	115.26	81.60	45.90	23.46	14.28	12.24	10.20
70	93.84	85.68	66.30	41.82	20.40	11.22	5.10	1.02	0.00
75	52.02	45.90	34.68	18.36	8.16	3.06	0.00	0.00	0.00
80	21.42	19.38	12.24	6.12	2.04	0.00	0.00	0.00	0.00
85	4.08	4.08	2.04	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	444.63	12.40	29.90
0-30	792.54	22.20	53.40
0-40	1059.75	29.60	71.40
0-60	1398.53	39.10	94.20
0-80	1482.95	41.50	99.80
0-90	1485.24	41.50	100.00
10-90	1360.71	38.00	91.60
20-40	615.12	17.20	41.40
20-50	820.36	22.90	55.20
40-70	403.36	11.30	27.20
60-80	84.42	2.40	5.70
70-80	19.84	0.60	1.30
80-90	2.28	0.10	0.20
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1485.24	41.50	100.00

Total Luminaire Efficiency = 41.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.52
10-20	320.11
20-30	347.90
30-40	267.22
40-50	205.24
50-60	133.54
60-70	64.58
70-80	19.84
80-90	2.28
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

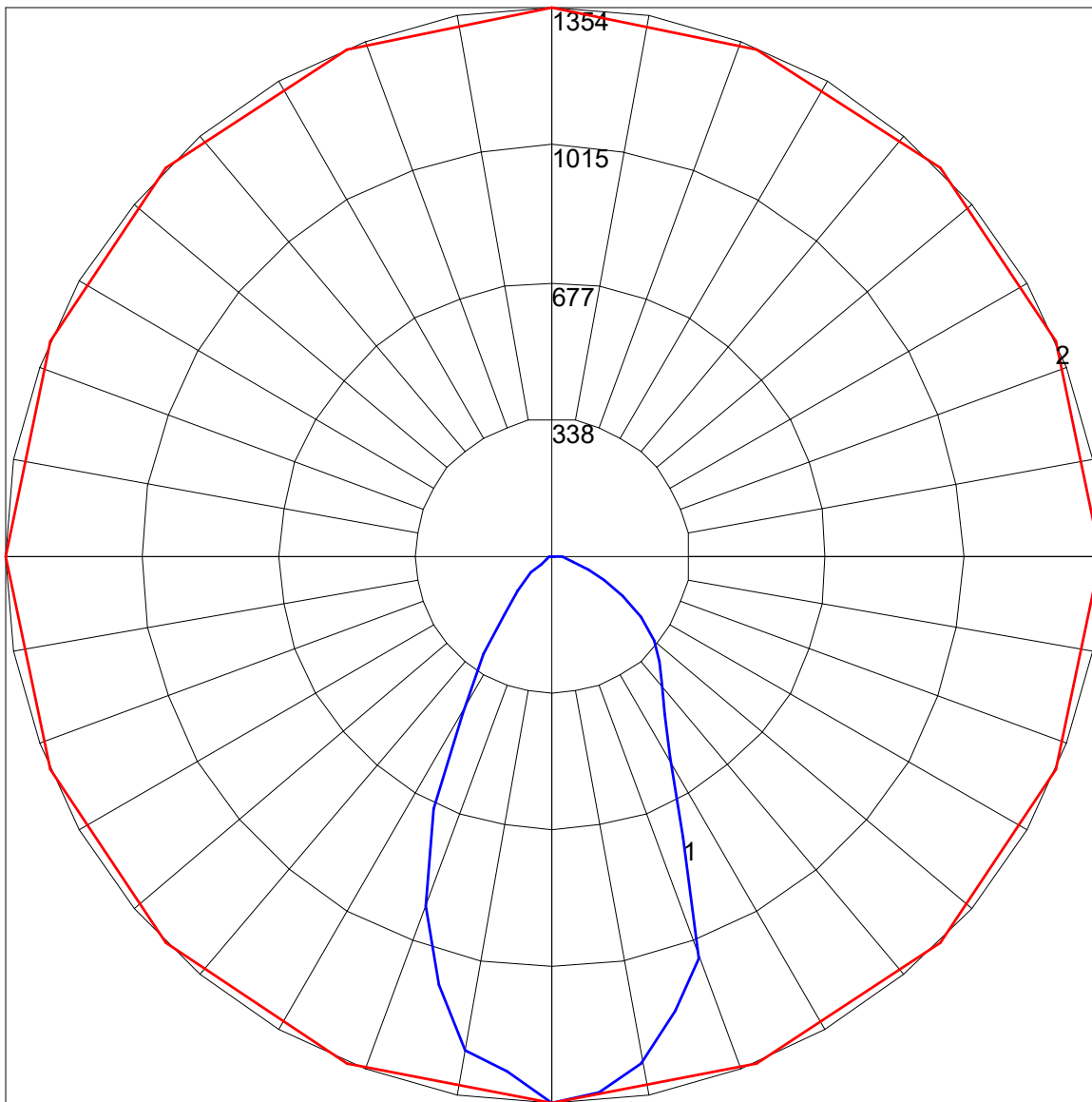
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42	42
1	47	45	44	43	45	44	43	42	43	42	41	41	40	40	40	39	38	38
2	44	41	39	37	43	40	38	37	39	37	36	38	36	35	36	35	35	34
3	41	37	35	33	40	37	35	33	36	34	32	35	33	32	34	32	31	30
4	38	34	32	29	37	34	31	29	33	31	29	32	30	29	31	30	28	27
5	36	32	29	27	35	31	29	26	30	28	26	30	28	26	29	27	26	25
6	34	29	26	24	33	29	26	24	28	26	24	28	25	24	27	25	24	23
7	32	27	24	22	31	27	24	22	26	24	22	26	24	22	25	23	22	21
8	30	25	22	20	29	25	22	20	25	22	20	24	22	20	24	22	20	19
9	28	24	21	19	28	24	21	19	23	21	19	23	20	19	22	20	19	18
10	27	22	20	18	26	22	19	18	22	19	18	21	19	18	21	19	18	17

POLAR GRAPH



Maximum Candela = 1353.54 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.)