

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUERAIL-T21593.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] 21593
[MANUFAC]VODE LIGHTING - RAIL MOUNT LUMINAIRE - QUE RAIL
[LUMINAIRE]WITH DIFFUSE INTERIOR AND NO LENS
[LAMP]TWO PHILIPS 54 WATT T5 LAMPS
[LAMPCAT]F54T5/841HO. LUMEN RATING = 4500 LMS.
[OTHER]TWO ADVANCE ICN-2S54 BALLASTS OPERATING AT 120 VAC AND 116 WATTS

CHARACTERISTICS

Total Rated Lamp Lumens	4500
Total Luminaire Efficiency	63.9 %
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.34
Spacing Criteria (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.95 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9184	10560	11342
55	8429	10588	11675
65	7337	10741	11978
75	5640	9633	8081
85	2980	1612	1737

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CANDELA TABULATION

	0	22.5	45	67.5	90
0	959.7	959.7	959.7	959.7	959.7
2.5	956.15	956.2	962.55	961.3	958.85
5	952.7	953.7	960.85	960.65	957.35
7.5	946.85	949.1	957.95	957.8	956.45
10	938.5	941.85	952.85	953.65	952.3
12.5	927.85	932.6	945.35	945.3	942.75
15	915	920.6	934	933.2	931.5
17.5	899.6	907.05	918.95	919.05	917.8
20	881.9	891.2	900.6	904.15	905.3
22.5	861.95	872.55	883.55	889.1	893
25	839.75	851.55	864.35	876.65	881.7
27.5	815.2	827.3	843.8	862.1	869.95
30	788.7	801.1	823.05	847.1	856.75
32.5	760.35	772.65	801.9	830.55	842.25
35	730.2	743.25	780.7	813.9	827.5
37.5	698.75	713.05	757.95	796.8	811.35
40	666.05	681.4	734.9	777.25	789.35
42.5	631.75	648.85	710.05	752.3	763.2
45	596.35	615.7	685.65	723.75	736.45
47.5	559.55	583.4	659.45	694.6	706.25
50	521.95	550.35	628.75	661.75	672
52.5	483.25	516.2	592.75	626.4	644
55	443.95	482.85	557.65	595.35	614.9
57.5	404.45	449.05	522.25	563.05	578.95
60	364.45	415.45	484.85	534.3	554.7
62.5	324.4	381.4	452.8	506.25	520.7
65	284.75	345	416.85	465.15	464.85
67.5	245.35	306.75	385.1	405.6	399.8
70	206.75	268.3	345.55	338.2	329.6
72.5	169.55	230.6	292.75	267.85	259.85
75	134.05	197.05	228.95	200.5	192.05
77.5	101.3	164.9	164.5	134.7	125.4
80	71.7	125.7	103.7	72.65	63.35
82.5	45.7	75.85	47.35	25.7	22.65
85	23.85	30.65	12.9	12.6	13.9
87.5	7	4.8	6	8.35	9.3
90	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	750.88	16.7	26.1
0-40	1238.71	27.5	43.1
0-60	2241.98	49.8	78
0-90	2874.94	63.9	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	2874.94	63.9	100

Total Luminaire Efficiency = 63.9%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.12
10-20	261.73
20-30	398.03
30-40	487.82
40-50	519.06
50-60	484.21
60-70	392.38
70-80	208.63
80-90	31.94
90-100	0
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

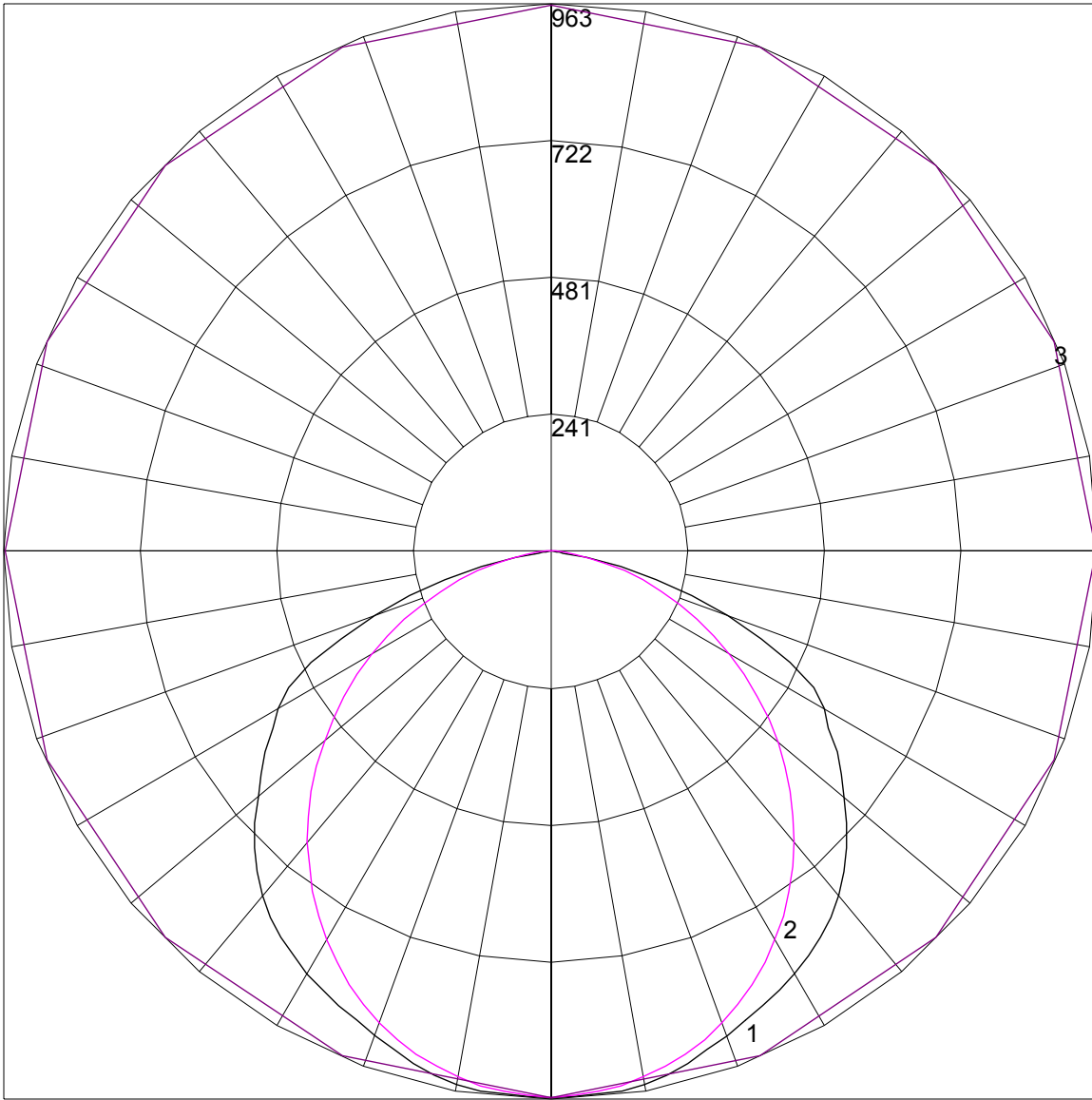
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64
1	69	66	64	61	68	65	62	60	62	60	58	60	58	57	57	56	55	54
2	63	58	53	50	61	56	52	49	54	51	48	52	49	47	50	48	46	44
3	57	50	45	41	56	49	45	41	48	43	40	46	42	39	44	41	38	37
4	52	45	39	34	51	44	38	34	42	37	34	41	37	33	39	36	33	31
5	48	40	34	30	47	39	33	29	38	33	29	36	32	29	35	31	28	27
6	44	36	30	26	43	35	30	26	34	29	25	33	28	25	32	28	25	24
7	41	32	27	23	40	32	26	22	31	26	22	30	25	22	29	25	22	21
8	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	18
9	36	27	22	18	35	27	21	18	26	21	18	25	21	18	24	21	18	16
10	33	25	20	16	33	24	20	16	24	19	16	23	19	16	23	19	16	15

POLAR GRAPH



Maximum Candela = 962.55 Located At Horizontal Angle = 45, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Vertical Plane Through Horizontal Angles (0 - 180)

3 - Horizontal Cone Through Vertical Angle (0)