



IES INDOOR REPORT

PHOTOMETRIC FILENAME : RDIS22-LED28DMVFR40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] RDIS22-LED28DMV40
 [TESTDATE] 13-Dec-2017 07:09:49
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUE DATE] 12/13/2017 8:04:49 AM
 [MANUFAC] MOBERN LIGHTING CO
 [LAMP] LED Module
 [_TOTALLUMINAIRELUMENS] 3271.3
 [OTHER] (1) UNIVERSAL D10CC55UNVTZ-C
 [BOARD/LAMP TYPE] (4) UNIVERSAL "F" BOARDS
 [OTHER] 4,090 CCT
 [OTHER] LUMEN/WATT- 116 LM/WT - CRI- 83.8
 [_NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	3217.097 (1 lamp)
Total Lamp Lumens	3217.097
Luminaire Lumens	3273
Total Luminaire Efficiency	102 %
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.61 m
Luminous Width (90-270)	0.61 m
Luminous Height	0.09 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2150	2328	2764
55	1872	2127	2750
65	1543	1852	2616
75	1124	1457	2100
85	573	445	395

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0	1121.52	1121.52	1121.52	1121.52	1121.52	1121.52	1121.52	1121.52	1121.52	1121.52
3	1114.40	1114.68	1114.97	1117.18	1117.65	1119.06	1120.36	1121.28	1121.86	1122.08
6	1101.11	1101.44	1104.55	1107.81	1110.49	1112.75	1115.26	1116.93	1117.88	1118.52
9	1090.50	1090.36	1093.86	1096.78	1101.00	1103.62	1105.70	1107.47	1109.09	1110.23
12	1077.73	1076.82	1079.25	1084.09	1089.52	1090.99	1091.49	1092.81	1095.31	1097.29
15	1056.49	1054.31	1058.30	1064.85	1071.31	1074.44	1074.41	1076.71	1079.12	1080.53
18	1028.70	1028.37	1028.82	1040.47	1048.10	1053.07	1055.29	1060.29	1063.96	1063.21
21	997.59	996.01	999.51	1013.17	1022.40	1026.72	1034.45	1044.33	1048.32	1047.63
24	963.26	961.25	967.72	978.21	990.88	999.20	1012.22	1026.90	1031.56	1029.93
27	925.32	924.59	930.53	944.86	960.03	971.11	987.95	1004.18	1012.77	1006.51
30	884.58	883.44	892.10	906.23	924.71	938.70	956.73	975.84	990.37	980.95
33	841.79	837.99	848.22	863.44	888.27	907.72	924.75	943.48	959.83	957.34
36	796.58	788.35	800.49	823.22	850.69	874.76	897.17	919.04	925.45	934.16
39	748.61	738.00	758.59	780.60	809.01	838.04	866.68	895.75	897.54	908.27
42	699.06	688.14	713.15	737.96	768.34	798.30	831.86	860.35	870.85	875.75
45	649.31	640.66	664.84	687.48	722.80	758.37	793.45	818.32	838.07	835.02
48	599.98	594.28	618.25	638.15	680.22	715.77	752.97	781.02	797.18	794.36
51	551.12	548.93	565.48	595.20	639.01	668.84	707.33	744.35	755.88	760.66
54	501.22	499.08	519.79	545.57	588.85	621.60	657.86	701.32	713.08	725.80
57	449.38	449.21	468.94	499.48	541.04	574.87	613.02	650.63	670.03	680.97
60	398.34	399.90	422.61	452.09	488.80	526.71	562.44	598.29	621.67	629.90
63	350.60	352.41	383.35	406.16	433.35	474.07	512.55	547.75	570.93	577.91
66	303.95	304.36	331.63	360.65	387.44	423.79	462.92	496.33	516.01	523.61
69	256.25	258.35	282.37	305.96	338.41	371.45	407.92	439.59	456.26	463.80
72	210.03	214.75	236.27	258.41	291.59	317.45	349.90	377.99	391.11	394.81
75	167.92	173.00	188.45	210.90	236.17	263.38	283.50	306.44	310.48	313.73
78	128.43	131.95	143.65	162.58	179.71	197.47	209.65	216.47	219.07	220.69
81	95.24	95.81	110.18	121.08	131.98	139.76	140.86	142.96	137.92	133.62
84	60.43	61.34	64.13	69.88	65.59	66.32	65.22	59.84	56.06	48.59
87	29.04	26.15	24.08	20.75	17.40	12.14	10.47	7.14	6.82	6.03
90	5.29	3.17	2.30	2.34	0.64	0.51	0.15	0.06	0.73	0.33
93	0.93	2.18	1.17	1.16	1.13	1.17	0.57	0.39	0.56	0.45
96	0.09	2.10	1.70	1.25	1.12	1.41	0.68	0.98	1.00	0.43
99	0.04	2.67	2.49	1.57	1.58	1.14	1.27	1.00	0.84	0.84
102	0.00	2.86	3.15	1.98	1.25	1.07	1.75	1.11	1.12	0.95
105	0.00	3.31	3.43	2.12	3.32	2.63	2.14	1.65	1.19	1.27
108	0.00	3.57	4.07	3.08	3.24	2.53	1.87	1.21	1.31	0.83
111	0.00	4.48	3.48	4.22	1.97	2.38	3.00	1.94	1.70	1.04
114	0.00	5.66	4.23	3.78	3.00	2.50	3.12	2.36	2.12	1.51
117	0.00	5.14	4.08	5.24	2.85	3.55	3.02	2.98	1.80	1.27
120	0.00	4.57	4.65	3.69	4.07	3.89	3.01	3.36	1.64	1.37
123	0.00	4.57	4.11	4.33	4.25	4.62	3.11	2.68	1.91	0.94
126	0.00	6.32	4.08	4.07	3.86	4.63	3.62	2.69	1.81	2.23
129	0.00	7.23	5.90	4.90	5.91	6.36	4.80	2.87	2.11	2.05
132	0.00	6.70	6.79	5.00	5.18	6.62	4.64	4.06	3.59	2.29
135	0.00	6.65	7.55	5.50	6.03	6.37	4.05	4.51	3.44	2.03
138	0.00	6.94	7.73	6.14	6.11	6.88	5.16	4.28	3.65	1.49
141	0.00	6.39	7.34	6.51	5.46	5.41	5.51	4.61	2.67	2.97
144	0.30	7.41	7.42	5.88	6.56	6.12	5.81	4.33	2.64	3.22
147	0.13	6.75	7.28	7.16	7.04	6.88	5.97	5.05	4.11	2.30
150	0.34	6.96	9.60	8.64	7.18	6.77	6.66	5.05	4.16	3.86
153	0.29	8.37	10.15	8.36	7.42	6.78	6.76	5.07	3.91	3.94
156	0.57	8.45	11.35	7.76	8.44	8.17	6.85	5.70	3.60	3.36
159	2.00	7.80	11.36	8.72	8.78	7.53	6.02	5.73	3.58	4.00

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162	2.86	8.10	10.97	9.41	8.73	7.63	6.53	5.20	3.96	4.35
165	5.41	7.47	11.58	10.97	7.78	8.15	8.01	5.28	4.66	4.52
168	8.36	9.53	12.60	11.42	10.16	9.02	6.64	6.15	6.65	5.98
171	11.14	10.80	11.55	12.08	10.37	7.85	7.02	6.75	5.40	4.94
174	15.50	13.88	12.11	10.85	9.70	8.74	7.78	7.09	6.83	6.99
177	12.33	11.66	11.00	8.45	7.69	6.65	5.68	5.11	4.68	4.60
180	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	333.15	10.40	10.20
0-30	862.02	26.80	26.30
0-40	1351.69	42.00	41.30
0-60	2508.87	78.00	76.70
0-80	3153.08	98.00	96.30
0-90	3249.31	101.00	99.30
10-90	3163.41	98.30	96.70
20-40	1018.54	31.70	31.10
20-50	1534.44	47.70	46.90
40-70	1543.55	48.00	47.20
60-80	644.21	20.00	19.70
70-80	257.85	8.00	7.90
80-90	96.22	3.00	2.90
90-110	3.03	0.10	0.10
90-120	6.56	0.20	0.20
90-130	9.48	0.30	0.30
90-150	17.22	0.50	0.50
90-180	23.36	0.70	0.70
110-180	20.32	0.60	0.60
0-180	3272.66	101.70	100.00

Total Luminaire Efficiency = 101.70%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.89
10-20	247.26
20-30	528.88
30-40	489.66
40-50	515.90
50-60	641.28
60-70	386.37
70-80	257.85
80-90	96.22
90-100	1.18
100-110	1.86
110-120	3.52
120-130	2.93
130-140	3.52
140-150	4.21
150-160	2.84
160-170	2.10
170-180	1.21

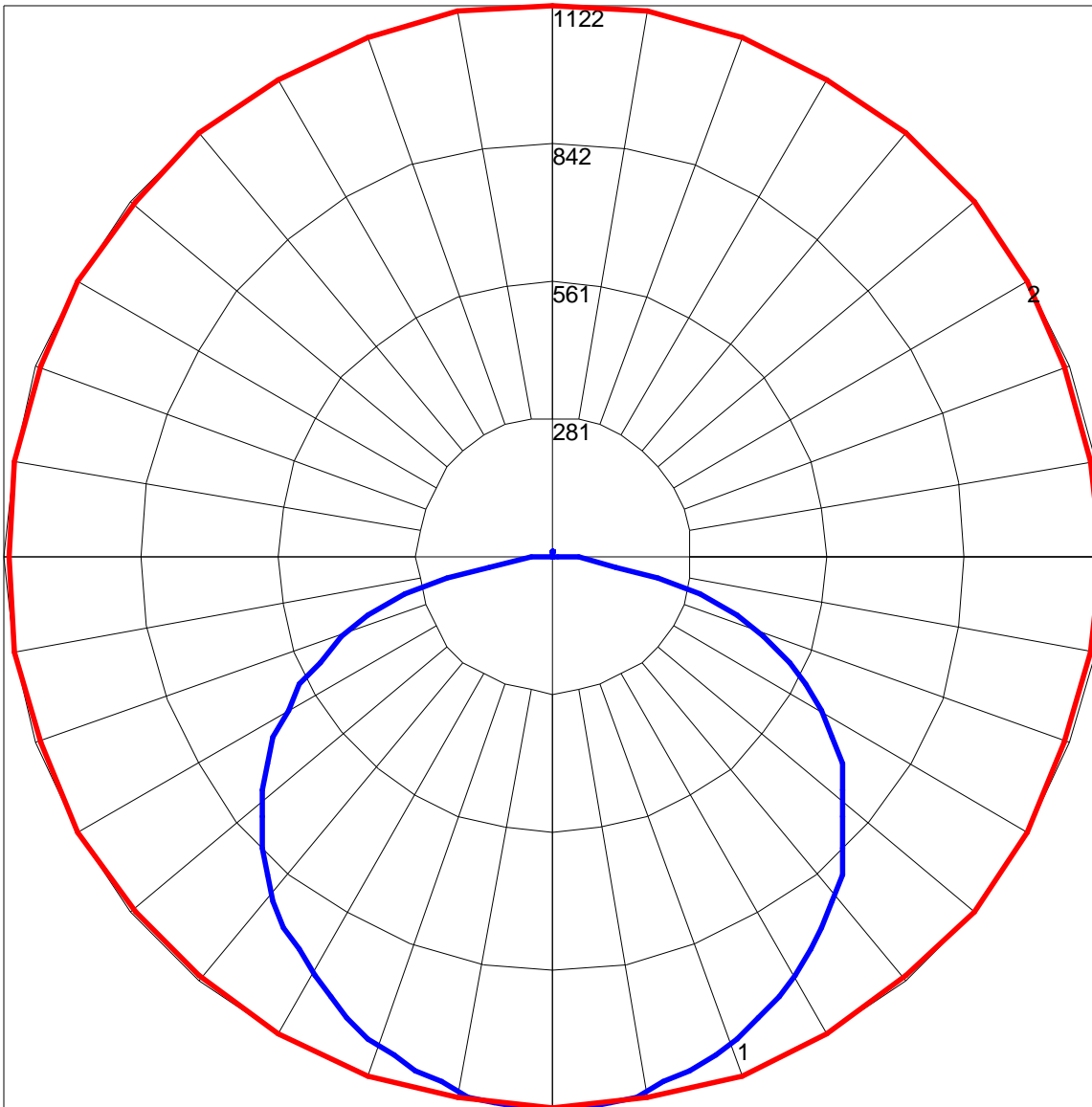
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	103	103	103	101
1	110	105	100	96	107	102	98	94	98	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	74	81	76	72	78	74	71	68
3	90	79	70	63	88	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	70	60	53	80	68	60	53	65	58	52	63	56	51	61	55	50	48
5	75	62	52	45	73	61	52	45	58	51	45	56	49	44	54	48	43	41
6	70	56	46	39	67	55	46	39	53	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	33	31
8	60	46	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	56	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 1122.08 Located At Horizontal Angle = 90, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)