



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : RDOT-LED35-HO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] RDOT-LED35-HO  
 [TESTLAB] Intertek  
 [ISSUE DATE] 3/27/18  
 [MANUFAC] PRUDENTIAL

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	980
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	18.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.52 ft (Diameter)
Luminous Width (90-270)	0.52 ft (Diameter)
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16105	16153	16247
55	15978	16089	16200
65	15622	15743	15879
75	13915	14092	14211
85	7674	7569	7326

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	328.94	328.94	328.94	328.94	328.94	328.94	328.94	328.94	328.94	328.94
2.5	328.21	327.92	328.10	328.33	328.21	328.33	328.10	327.92	328.21	327.92
5.0	326.34	326.41	326.69	326.79	326.83	326.79	326.69	326.41	326.34	326.41
7.5	324.22	324.38	324.37	324.62	324.41	324.62	324.37	324.38	324.22	324.38
10.0	321.30	321.19	321.29	321.71	321.67	321.71	321.29	321.19	321.30	321.19
12.5	317.68	317.57	317.64	317.95	318.24	317.95	317.64	317.57	317.68	317.57
15.0	313.83	313.65	313.75	314.21	314.14	314.21	313.75	313.65	313.83	313.65
17.5	309.20	309.26	309.30	309.57	309.98	309.57	309.30	309.26	309.20	309.26
20.0	304.87	304.18	304.79	304.80	305.11	304.80	304.79	304.18	304.87	304.18
22.5	299.06	299.31	299.28	299.68	299.54	299.68	299.28	299.31	299.06	299.31
25.0	292.76	292.63	293.02	293.27	293.74	293.27	293.02	292.63	292.76	292.63
27.5	285.72	285.79	286.40	286.78	286.96	286.78	286.40	285.79	285.72	285.79
30.0	278.05	278.52	278.91	279.42	279.75	279.42	278.91	278.52	278.05	278.52
32.5	270.84	270.66	271.19	271.73	272.15	271.73	271.19	270.66	270.84	270.66
35.0	262.75	262.57	263.06	263.79	264.23	263.79	263.06	262.57	262.75	262.57
37.5	254.40	254.16	254.82	255.06	255.85	255.06	254.82	254.16	254.40	254.16
40.0	245.26	245.01	245.65	246.49	247.02	246.49	245.65	245.01	245.26	245.01
42.5	235.58	235.56	236.21	236.81	237.57	236.81	236.21	235.56	235.58	235.56
45.0	225.61	225.66	226.29	227.09	227.61	227.09	226.29	225.66	225.61	225.66
47.5	215.27	215.18	216.11	216.83	217.36	216.83	216.11	215.18	215.27	215.18
50.0	204.58	204.53	205.53	206.04	206.52	206.04	205.53	204.53	204.58	204.53
52.5	193.32	193.20	194.23	195.10	195.57	195.10	194.23	193.20	193.32	193.20
55.0	181.57	181.52	182.83	183.57	184.09	183.57	182.83	181.52	181.57	181.52
57.5	169.35	169.54	170.50	171.50	171.74	171.50	170.50	169.54	169.35	169.54
60.0	156.95	157.15	158.09	158.94	159.22	158.94	158.09	157.15	156.95	157.15
62.5	144.19	143.95	145.28	145.85	146.40	145.85	145.28	143.95	144.19	143.95
65.0	130.80	130.40	131.81	132.42	132.95	132.42	131.81	130.40	130.80	130.40
67.5	116.53	116.31	117.76	118.47	118.65	118.47	117.76	116.31	116.53	116.31
70.0	101.85	101.96	102.99	103.72	103.98	103.72	102.99	101.96	101.85	101.96
72.5	86.85	86.98	87.85	88.38	88.56	88.38	87.85	86.98	86.85	86.98
75.0	71.35	71.32	72.26	72.40	72.87	72.40	72.26	71.32	71.35	71.32
77.5	55.05	54.81	55.60	55.67	56.00	55.67	55.60	54.81	55.05	54.81
80.0	38.65	38.42	38.97	38.86	38.99	38.86	38.97	38.42	38.65	38.42
82.5	23.75	23.66	23.65	23.40	23.49	23.40	23.65	23.66	23.75	23.66
85.0	13.25	13.20	13.07	12.62	12.65	12.62	13.07	13.20	13.25	13.20
87.5	6.78	6.74	6.56	6.13	6.15	6.13	6.56	6.74	6.78	6.74
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	328.94	328.94	328.94	328.94	328.94	328.94	328.94
2.5	328.10	328.33	328.21	328.33	328.10	327.92	328.21
5.0	326.69	326.79	326.83	326.79	326.69	326.41	326.34
7.5	324.37	324.62	324.41	324.62	324.37	324.38	324.22
10.0	321.29	321.71	321.67	321.71	321.29	321.19	321.30
12.5	317.64	317.95	318.24	317.95	317.64	317.57	317.68
15.0	313.75	314.21	314.14	314.21	313.75	313.65	313.83
17.5	309.30	309.57	309.98	309.57	309.30	309.26	309.20
20.0	304.79	304.80	305.11	304.80	304.79	304.18	304.87
22.5	299.28	299.68	299.54	299.68	299.28	299.31	299.06
25.0	293.02	293.27	293.74	293.27	293.02	292.63	292.76
27.5	286.40	286.78	286.96	286.78	286.40	285.79	285.72
30.0	278.91	279.42	279.75	279.42	278.91	278.52	278.05
32.5	271.19	271.73	272.15	271.73	271.19	270.66	270.84
35.0	263.06	263.79	264.23	263.79	263.06	262.57	262.75
37.5	254.82	255.06	255.85	255.06	254.82	254.16	254.40
40.0	245.65	246.49	247.02	246.49	245.65	245.01	245.26
42.5	236.21	236.81	237.57	236.81	236.21	235.56	235.58
45.0	226.29	227.09	227.61	227.09	226.29	225.66	225.61
47.5	216.11	216.83	217.36	216.83	216.11	215.18	215.27
50.0	205.53	206.04	206.52	206.04	205.53	204.53	204.58
52.5	194.23	195.10	195.57	195.10	194.23	193.20	193.32
55.0	182.83	183.57	184.09	183.57	182.83	181.52	181.57
57.5	170.50	171.50	171.74	171.50	170.50	169.54	169.35
60.0	158.09	158.94	159.22	158.94	158.09	157.15	156.95
62.5	145.28	145.85	146.40	145.85	145.28	143.95	144.19
65.0	131.81	132.42	132.95	132.42	131.81	130.40	130.80
67.5	117.76	118.47	118.65	118.47	117.76	116.31	116.53
70.0	102.99	103.72	103.98	103.72	102.99	101.96	101.85
72.5	87.85	88.38	88.56	88.38	87.85	86.98	86.85
75.0	72.26	72.40	72.87	72.40	72.26	71.32	71.35
77.5	55.60	55.67	56.00	55.67	55.60	54.81	55.05
80.0	38.97	38.86	38.99	38.86	38.97	38.42	38.65

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**CANDELA TABULATION - (Cont.)**

82.5	23.65	23.40	23.49	23.40	23.65	23.66	23.75
85.0	13.07	12.62	12.65	12.62	13.07	13.20	13.25
87.5	6.56	6.13	6.15	6.13	6.56	6.74	6.78
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	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	119.65	N.A.	12.20
0-30	254.76	N.A.	26.00
0-40	419.52	N.A.	42.80
0-60	757.34	N.A.	77.30
0-80	962.60	N.A.	98.30
0-90	979.57	N.A.	100.00
10-90	948.55	N.A.	96.80
20-40	299.86	N.A.	30.60
20-50	474.54	N.A.	48.40
40-70	467.69	N.A.	47.70
60-80	205.25	N.A.	21.00
70-80	75.39	N.A.	7.70
80-90	16.97	N.A.	1.70
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	979.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	31.02
10-20	88.64
20-30	135.10
30-40	164.76
40-50	174.68
50-60	163.14
60-70	129.87
70-80	75.39
80-90	16.97
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

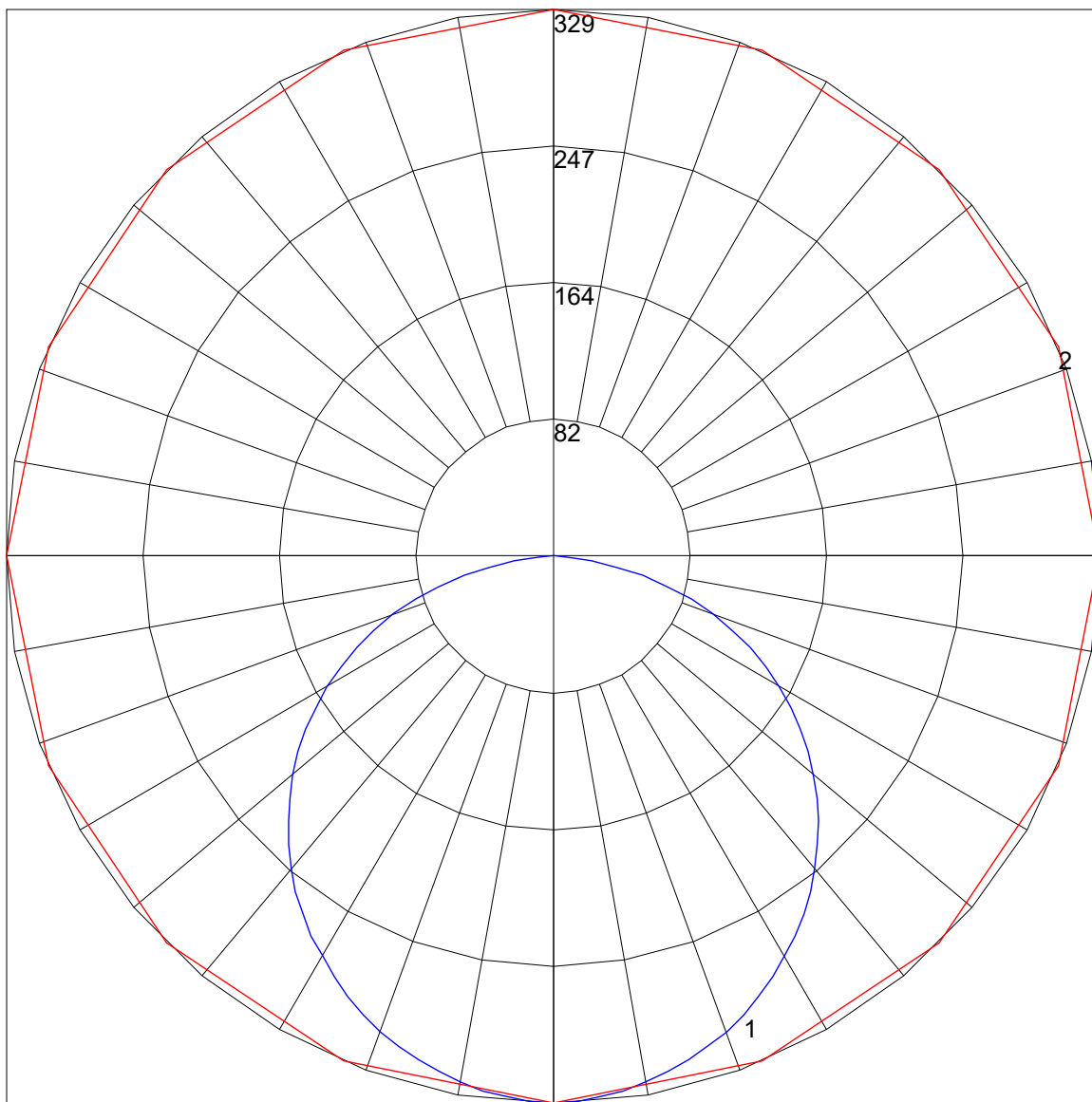
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 328.94 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.)