

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P3950-LED3-SO-FWA-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]359809  
[TESTLAB]UL Verification Services  
[ISSUE DATE]  
[MANUFAC]Prudential Lighting Group  
[LUMCAT]P3950-LED3-SO-FWA-D1  
[LUMINAIRE]N/A  
[LAMP]N/A  
[LAMPCAT]  
[OTHER]120.0V

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	228
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	5.00 ft (Diameter)
Luminous Height	0.50 ft (Diameter)

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3390	3390	3390
55	2650	2650	2650
65	1845	1845	1845
75	1035	1035	1035
85	291	291	291

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CANDELA TABULATION

	<u>0</u>
0.0	9260.46
2.5	9250.56
5.0	9219.21
7.5	9170.04
10.0	9100.08
12.5	9009.33
15.0	8901.75
17.5	8771.40
20.0	8621.58
22.5	8454.60
25.0	8265.84
27.5	8061.57
30.0	7839.48
32.5	7602.54
35.0	7348.11
37.5	7076.52
40.0	6793.05
42.5	6497.37
45.0	6188.82
47.5	5867.07
50.0	5533.77
52.5	5189.25
55.0	4838.13
57.5	4479.42
60.0	4114.77
62.5	3743.19
65.0	3369.30
67.5	2994.42
70.0	2621.19
72.5	2251.92
75.0	1888.92
77.5	1533.84
80.0	1186.02
82.5	850.74
85.0	531.96
87.5	238.26
90.0	33.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3388.23	N.A.	12.60
0-30	7197.71	N.A.	26.80
0-40	11793.25	N.A.	44.00
0-60	20888.99	N.A.	77.90
0-80	26222.13	N.A.	97.70
0-90	26828.97	N.A.	100.00
10-90	25952.69	N.A.	96.70
20-40	8405.02	N.A.	31.30
20-50	13177.15	N.A.	49.10
40-70	12430.14	N.A.	46.30
60-80	5333.14	N.A.	19.90
70-80	1998.73	N.A.	7.40
80-90	606.84	N.A.	2.30
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	26828.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	876.28
10-20	2511.95
20-30	3809.48
30-40	4595.55
40-50	4772.12
50-60	4323.61
60-70	3334.41
70-80	1998.73
80-90	606.84
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	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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**UGR TABLE - CORRECTED**

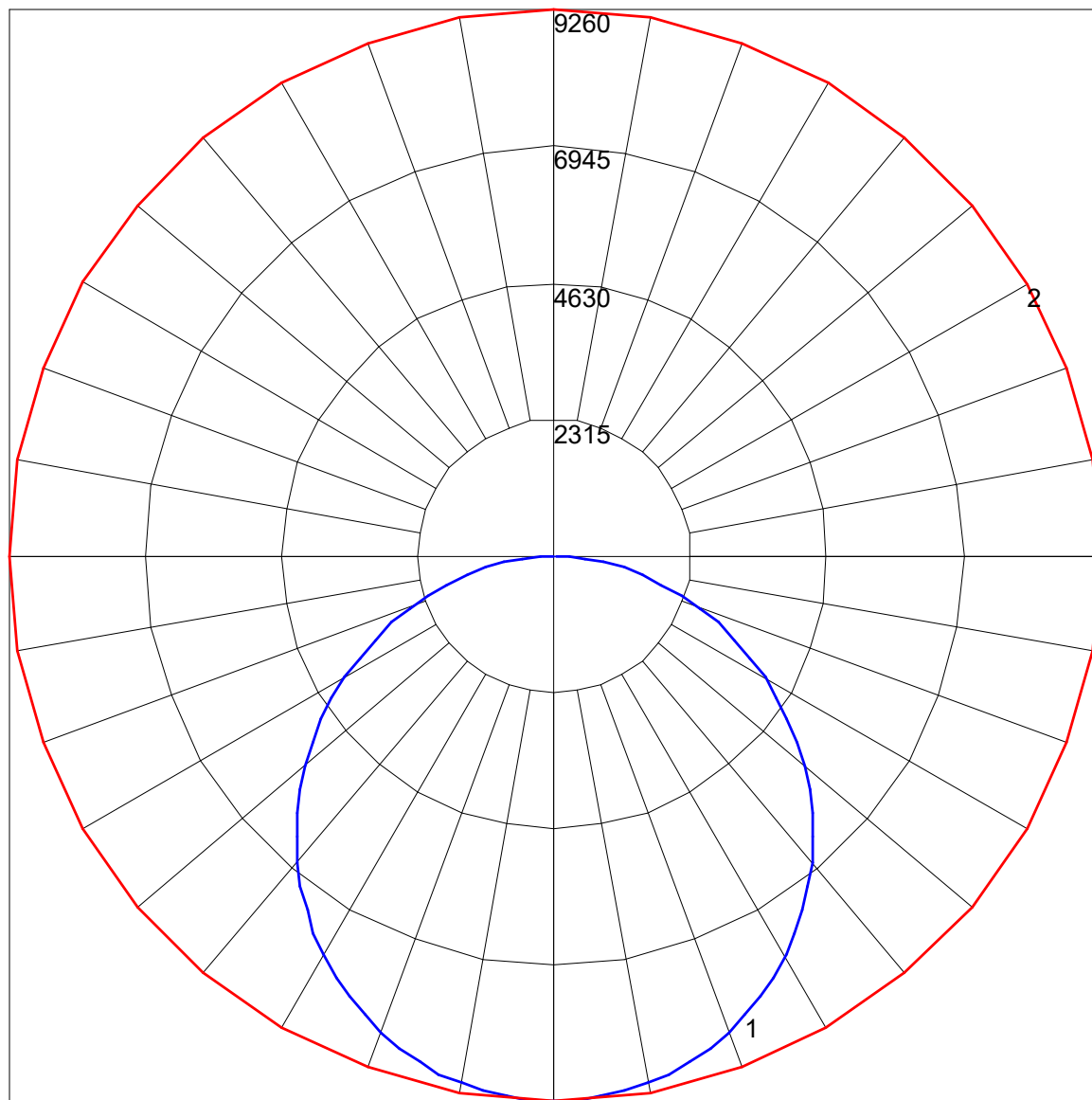
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.8	14.4	13.1	14.7	15.1	12.8	14.4	13.1	14.7	15.1
	3H	14.2	15.7	14.6	16.1	16.4	14.2	15.7	14.6	16.1	16.4
	4H	14.7	16.1	15.1	16.5	16.9	14.7	16.1	15.1	16.5	16.9
	6H	15.0	16.4	15.5	16.7	17.1	15.0	16.4	15.5	16.7	17.1
	8H	15.1	16.4	15.6	16.8	17.2	15.1	16.4	15.6	16.8	17.2
	12H	15.1	16.4	15.6	16.7	17.2	15.1	16.4	15.6	16.7	17.2
4H	2H	13.2	14.6	13.6	15.0	15.4	13.2	14.6	13.6	15.0	15.4
	3H	14.9	16.1	15.3	16.5	16.9	14.9	16.1	15.3	16.5	16.9
	4H	15.5	16.5	15.9	17.0	17.4	15.5	16.5	15.9	17.0	17.4
	6H	15.9	16.8	16.3	17.3	17.7	15.9	16.8	16.3	17.3	17.7
	8H	16.0	16.9	16.4	17.3	17.8	16.0	16.9	16.4	17.3	17.8
	12H	16.1	16.8	16.5	17.3	17.8	16.1	16.8	16.5	17.3	17.8
8H	4H	15.6	16.5	16.1	17.0	17.4	15.6	16.5	16.1	17.0	17.4
	6H	16.1	16.9	16.6	17.4	17.8	16.1	16.9	16.6	17.4	17.8
	8H	16.3	16.9	16.8	17.4	17.9	16.3	16.9	16.8	17.4	17.9
	12H	16.4	17.0	16.9	17.5	18.0	16.4	17.0	16.9	17.5	18.0
12H	4H	15.7	16.5	16.2	16.9	17.4	15.7	16.5	16.2	16.9	17.4
	6H	16.2	16.8	16.7	17.3	17.8	16.2	16.8	16.7	17.3	17.8
	8H	16.3	16.9	16.8	17.4	18.0	16.3	16.9	16.8	17.4	18.0

Maximum UGR = 18.0

POLAR GRAPH



Maximum Candela = 9260.46 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.)