

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4020-LED35-MO-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L041505601  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUE DATE]  
[MANUFAC] PRUDENTIAL LTG.  
[LUMCAT] P3920 or 4020-LED35-MO-D1  
[LUMINAIRE] 26-1/4"DIA. X 5"H. LED LUMINAIRE  
[MORE] DIFFUSED LENS  
[BALLASTCAT] OSRAM OPTOTRONIC  
[BALLAST] INPUT: 120-277VAC  
[LAMPPOSITION] 0,0  
[LAMPCAT] N/A  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.04 ft (Diameter)
Luminous Width (90-270)	2.04 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	4482	4482	4482
55	4288	4288	4288
65	4058	4058	4058
75	3371	3371	3371
85	2110	2110	2110

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CANDELA TABULATION

	<u>0</u>
0	1476.8
5	1467.7
10	1446.9
15	1410.5
20	1363.7
25	1302.6
30	1232.4
35	1151.8
40	1062.1
45	963.3
50	859.3
55	747.5
60	643.5
65	521.3
70	392.6
75	265.2
80	146.9
85	55.9
90	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	537.60	N.A.	13.00
0-30	1138.05	N.A.	27.50
0-40	1858.51	N.A.	44.90
0-60	3272.71	N.A.	79.10
0-80	4069.49	N.A.	98.30
0-90	4139.9	N.A.	100.00
10-90	4000.43	N.A.	96.60
20-40	1320.91	N.A.	31.90
20-50	2064.22	N.A.	49.90
40-70	1928.77	N.A.	46.60
60-80	796.78	N.A.	19.20
70-80	282.20	N.A.	6.80
80-90	70.41	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	4139.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.47
10-20	398.13
20-30	600.45
30-40	720.46
40-50	743.30
50-60	670.90
60-70	514.57
70-80	282.20
80-90	70.41
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	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

X=2H	Y=2H	16.4	18.0	16.8	18.3	18.7	16.4	18.0	16.8	18.3	18.7
	3H	18.2	19.7	18.6	20.0	20.4	18.2	19.7	18.6	20.0	20.4
	4H	18.8	20.2	19.2	20.6	20.9	18.8	20.2	19.2	20.6	20.9
	6H	19.2	20.5	19.7	20.9	21.3	19.2	20.5	19.7	20.9	21.3
	8H	19.3	20.6	19.8	21.0	21.4	19.3	20.6	19.8	21.0	21.4
	12H	19.4	20.6	19.8	21.0	21.4	19.4	20.6	19.8	21.0	21.4

UGR Viewed Endwise

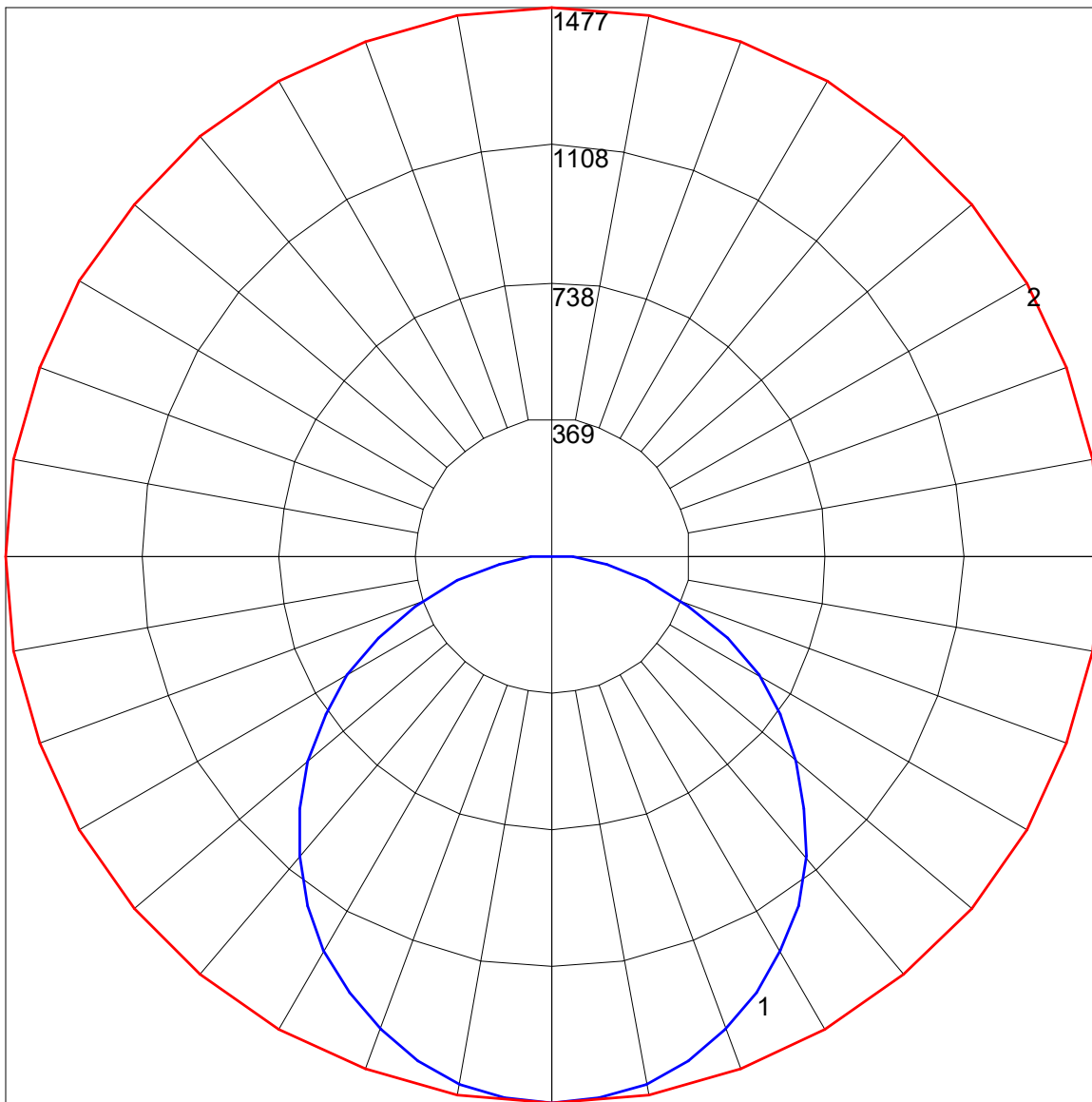
4H	2H	17.1	18.4	17.4	18.8	19.2	17.1	18.4	17.4	18.8	19.2
	3H	19.0	20.2	19.5	20.6	21.0	19.0	20.2	19.5	20.6	21.0
	4H	19.8	20.8	20.2	21.3	21.7	19.8	20.8	20.2	21.3	21.7
	6H	20.3	21.2	20.8	21.7	22.1	20.3	21.2	20.8	21.7	22.1
	8H	20.5	21.3	20.9	21.8	22.2	20.5	21.3	20.9	21.8	22.2
	12H	20.6	21.4	21.1	21.8	22.3	20.6	21.4	21.1	21.8	22.3

8H	4H	20.1	20.9	20.5	21.4	21.8	20.1	20.9	20.5	21.4	21.8
	6H	20.7	21.4	21.2	21.9	22.4	20.7	21.4	21.2	21.9	22.4
	8H	20.9	21.6	21.4	22.1	22.6	20.9	21.6	21.4	22.1	22.6
	12H	21.1	21.7	21.6	22.1	22.7	21.1	21.7	21.6	22.1	22.7

12H	4H	20.1	20.9	20.6	21.4	21.8	20.1	20.9	20.6	21.4	21.8
	6H	20.8	21.4	21.3	21.9	22.4	20.8	21.4	21.3	21.9	22.4
	8H	21.0	21.6	21.5	22.1	22.6	21.0	21.6	21.5	22.1	22.6

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 1476.8 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.)