



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CTNLED4-10000 - COPY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2021.0.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Fri Jun 21 12:15:10 2024

[TEST] 1

[MANUFACT]

[LUMCAT]

[LUMINAIRE] CTNLED4-80D1LCR2L840

[LAMP] LED 4W 5050 6V Series (640mA)

[LAMPCAT] S1W0-5050407006-00000000-00002

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	42.094 (240 lamps)
Total Lamp Lumens	10102.56
Luminaire Lumens	10102
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	73.21
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.76 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	40306	40090	40022
55	41091	40777	40679
65	40412	39951	39807
75	39731	38949	38708
85	41861	39453	38746

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CANDELA TABULATION

	<u>0</u>
0.0	3371.388
2.5	3233.625
5.0	3291.575
7.5	3213.350
10.0	3213.037
12.5	3137.212
15.0	3157.675
17.5	3120.800
20.0	3012.275
22.5	3002.425
25.0	2885.738
27.5	2850.337
30.0	2782.725
32.5	2712.600
35.0	2600.875
37.5	2580.763
40.0	2480.962
42.5	2390.563
45.0	2258.313
47.5	2149.025
50.0	2051.962
52.5	1929.200
55.0	1868.237
57.5	1736.925
60.0	1595.688
62.5	1454.725
65.0	1354.662
67.5	1233.500
70.0	1085.637
72.5	968.425
75.0	816.787
77.5	703.350
80.0	555.650
82.5	437.600
85.0	291.775
87.5	135.125
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1195.23	11.80	11.80
0-30	2538.19	25.10	25.10
0-40	4187.79	41.50	41.50
0-60	7584.71	75.10	75.10
0-80	9790.77	96.90	96.90
0-90	10101.62	100.00	100.00
10-90	9792.31	96.90	96.90
20-40	2992.57	29.60	29.60
20-50	4742.77	46.90	47.00
40-70	4729.82	46.80	46.80
60-80	2206.06	21.80	21.80
70-80	873.16	8.60	8.60
80-90	310.84	3.10	3.10
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	10101.62	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	309.31
10-20	885.92
20-30	1342.96
30-40	1649.61
40-50	1750.2
50-60	1646.71
60-70	1332.9
70-80	873.16
80-90	310.84
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	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

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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	25.1	26.7	25.4	27.1	27.4	25.1	26.8	25.5	27.1	27.4
	3H	27.1	28.6	27.5	29.0	29.3	27.1	28.7	27.5	29.0	29.4
	4H	28.0	29.4	28.4	29.8	30.1	28.0	29.4	28.4	29.8	30.2
	6H	28.7	30.0	29.1	30.4	30.8	28.7	30.1	29.1	30.4	30.8
	8H	28.9	30.2	29.4	30.6	31.0	29.0	30.3	29.4	30.7	31.1
	12H	29.2	30.4	29.6	30.8	31.2	29.2	30.5	29.7	30.9	31.3

UGR Viewed Endwise

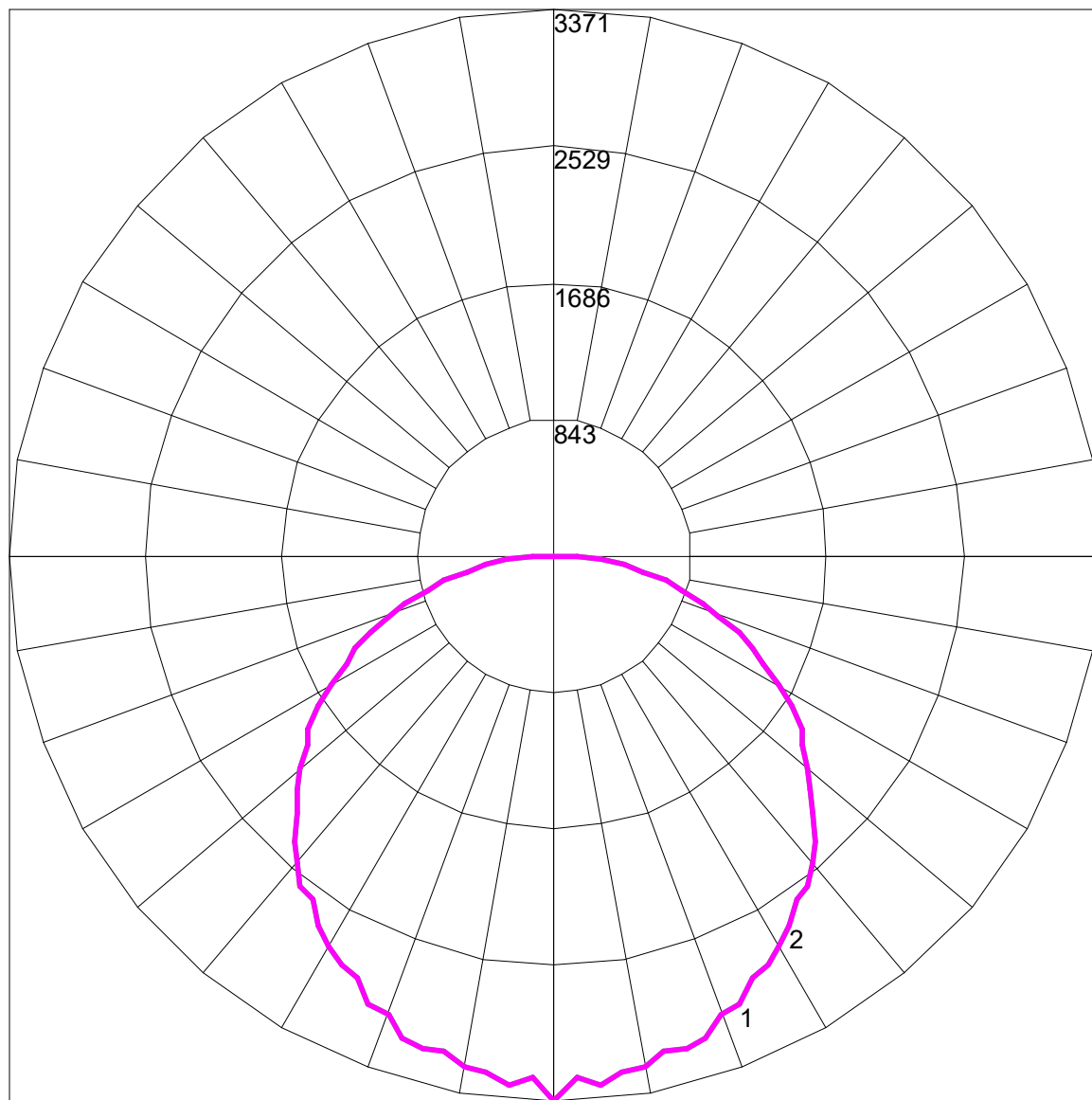
4H	2H	25.8	27.2	26.2	27.6	27.9	25.8	27.2	26.2	27.6	28.0
	3H	28.1	29.3	28.5	29.7	30.1	28.1	29.3	28.5	29.7	30.1
	4H	29.0	30.1	29.5	30.6	31.0	29.1	30.2	29.5	30.6	31.0
	6H	29.9	30.9	30.4	31.3	31.8	30.0	30.9	30.4	31.4	31.8
	8H	30.3	31.2	30.7	31.6	32.1	30.3	31.2	30.8	31.7	32.1
	12H	30.5	31.4	31.0	31.8	32.3	30.6	31.5	31.1	31.9	32.4

8H	4H	29.5	30.4	29.9	30.8	31.3	29.5	30.4	29.9	30.8	31.3
	6H	30.5	31.3	31.0	31.7	32.2	30.5	31.3	31.0	31.8	32.3
	8H	30.9	31.6	31.5	32.1	32.6	31.0	31.7	31.5	32.2	32.7
	12H	31.3	31.9	31.8	32.4	33.0	31.4	32.0	31.9	32.5	33.1

12H	4H	29.5	30.3	30.0	30.8	31.3	29.5	30.4	30.0	30.8	31.3
	6H	30.6	31.3	31.1	31.8	32.3	30.6	31.3	31.1	31.8	32.3
	8H	31.1	31.7	31.6	32.2	32.8	31.2	31.8	31.7	32.3	32.8

Maximum UGR = 33.1

POLAR GRAPH



Maximum Candela = 3371.388 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)