



IES INDOOR REPORT
PHOTOMETRIC FILENAME : DSS 4 MD 12 SW 9SEL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LCZP19060258
[TESTLAB] LCTECH
[TESTDATE] 2019/9/18
[ISSUEDATE] 2019/9/18
[MANUFAC] LumenFocus, LLC.
[LUMINAIRE] DSS 4 MD 12 SW 9SEL
[LUMCAT] SLIM DOWNLIGHT 4" 10W - 27/30/35/40/50K/DIMM
[LAMPCAT]
[LAMP]

CHARACTERISTICS

Lumens Per Lamp	689.35 (1 lamp)
Total Lamp Lumens	689.35
Luminaire Lumens	689
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	9.79
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	Circular
Luminous Length (0-180)	0.08 m (Diameter)
Luminous Width (90-270)	0.08 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	51048	51123	51399
55	48985	48896	49146
65	46054	45796	46158
75	40975	41157	41438
85	31183	30820	27632

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	87.99	12.80	12.80
0-30	186.65	27.10	27.10
0-40	305.28	44.30	44.30
0-60	538.79	78.20	78.20
0-80	673.60	97.70	97.70
0-90	687.83	99.80	99.80
10-90	665.04	96.50	96.50
20-40	217.29	31.50	31.50
20-50	340.10	49.30	49.30
40-70	318.28	46.20	46.20
60-80	134.81	19.60	19.60
70-80	50.03	7.30	7.30
80-90	14.23	2.10	2.10
90-110	0.35	0.10	0.10
90-120	0.50	0.10	0.10
90-130	0.65	0.10	0.10
90-150	0.97	0.10	0.10
90-180	1.52	0.20	0.20
110-180	1.17	0.20	0.20
0-180	689.35	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.79
10-20	65.20
20-30	98.66
30-40	118.63
40-50	122.81
50-60	110.70
60-70	84.78
70-80	50.03
80-90	14.23
90-100	0.19
100-110	0.16
110-120	0.15
120-130	0.15
130-140	0.14
140-150	0.18
150-160	0.24
160-170	0.22
170-180	0.09

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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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

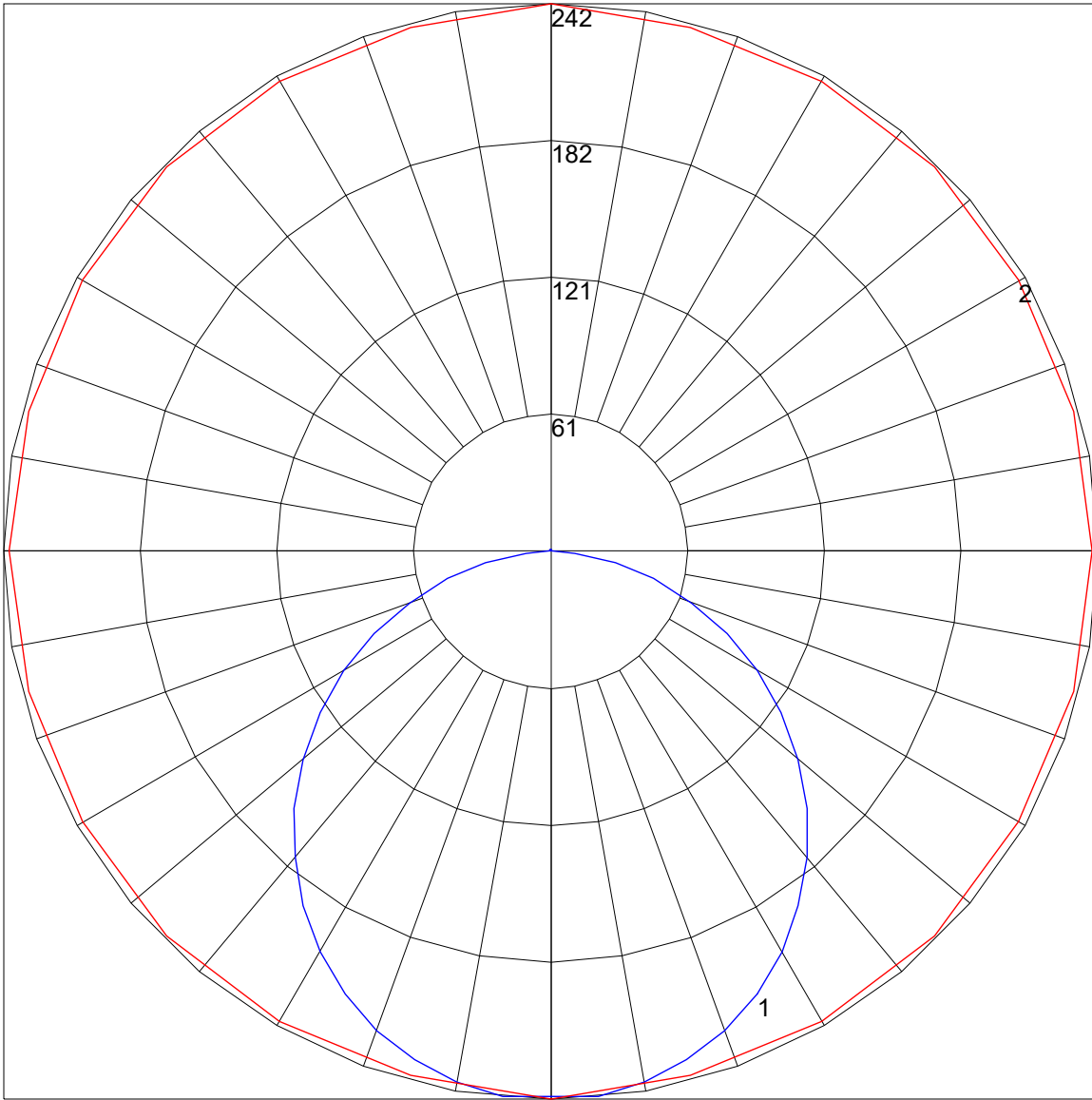
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UGR TABLE - CORRECTED

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	24.8	26.4	25.2	26.8	27.1	24.8	26.4	25.1	26.7	27.0
	3H	26.6	28.1	27.0	28.5	28.8	26.6	28.1	27.0	28.4	28.8
	4H	27.3	28.7	27.7	29.1	29.5	27.3	28.7	27.7	29.1	29.5
	6H	27.9	29.2	28.3	29.6	29.9	27.9	29.2	28.3	29.5	29.9
	8H	28.1	29.3	28.5	29.7	30.1	28.0	29.3	28.5	29.7	30.1
	12H	28.2	29.4	28.6	29.8	30.2	28.1	29.3	28.6	29.7	30.1
4H	2H	25.4	26.8	25.8	27.2	27.6	25.4	26.8	25.8	27.2	27.5
	3H	27.5	28.7	27.9	29.1	29.5	27.5	28.7	27.9	29.1	29.5
	4H	28.3	29.4	28.8	29.8	30.3	28.3	29.4	28.8	29.8	30.3
	6H	29.0	30.0	29.5	30.4	30.9	29.0	29.9	29.4	30.4	30.8
	8H	29.3	30.1	29.7	30.6	31.0	29.2	30.1	29.7	30.5	31.0
	12H	29.4	30.2	29.9	30.7	31.1	29.4	30.1	29.8	30.6	31.1
8H	4H	28.7	29.6	29.1	30.0	30.5	28.7	29.6	29.1	30.0	30.5
	6H	29.5	30.2	30.0	30.7	31.2	29.5	30.2	30.0	30.7	31.2
	8H	29.8	30.4	30.3	31.0	31.4	29.7	30.4	30.3	30.9	31.4
	12H	30.0	30.6	30.5	31.1	31.7	30.0	30.5	30.5	31.0	31.6
12H	4H	28.7	29.5	29.2	30.0	30.5	28.7	29.5	29.2	30.0	30.5
	6H	29.6	30.2	30.1	30.7	31.2	29.5	30.2	30.1	30.7	31.2
	8H	29.9	30.5	30.4	31.0	31.5	29.9	30.5	30.4	31.0	31.5

Maximum UGR = 31.7

POLAR GRAPH



Maximum Candela = 242.048 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)