



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DLR 4 MD 12 WB 9SEL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LCZP19020091
[TESTLAB] LCTECH
[TESTDATE] 2019/3/4
[ISSUEDATE] 2019/3/4
[MANUFAC] LumenFocus, LLC.
[LUMINAIRE] DLR 4 MD 12 WB 9SEL
[LUMCAT] LED RETROFIT 4" CAN 10W - 27K/30K/40K/50K/WHITE
[MORE] TRIM/MED/DIMMABLE

CHARACTERISTICS

Lumens Per Lamp	679.57 (1 lamp)
Total Lamp Lumens	679.57
Luminaire Lumens	680
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	9.83
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.10 m (Diameter)
Luminous Width (90-270)	0.10 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	30177	30114	30465
55	26975	26917	27285
65	19833	19918	20358
75	7569	7458	7743
85	3767	3824	3787

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DLR 4 MD 12 WB 9SEL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	99.72	14.70	14.70
0-30	211.08	31.10	31.10
0-40	343.70	50.60	50.60
0-60	588.39	86.60	86.60
0-80	676.13	99.50	99.50
0-90	679.45	100.00	100.00
10-90	653.58	96.20	96.20
20-40	243.98	35.90	35.90
20-50	377.09	55.50	55.50
40-70	312.22	45.90	45.90
60-80	87.74	12.90	12.90
70-80	20.21	3.00	3.00
80-90	3.32	0.50	0.50
90-110	0.02	0.00	0.00
90-120	0.02	0.00	0.00
90-130	0.02	0.00	0.00
90-150	0.05	0.00	0.00
90-180	0.12	0.00	0.00
110-180	0.10	0.00	0.00
0-180	679.57	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.87
10-20	73.85
20-30	111.36
30-40	132.62
40-50	133.11
50-60	111.58
60-70	67.53
70-80	20.21
80-90	3.32
90-100	0.01
100-110	0.01
110-120	0.01
120-130	0.00
130-140	0.00
140-150	0.02
150-160	0.03
160-170	0.03
170-180	0.01

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DLR 4 MD 12 WB 9SEL.IES

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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	41	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

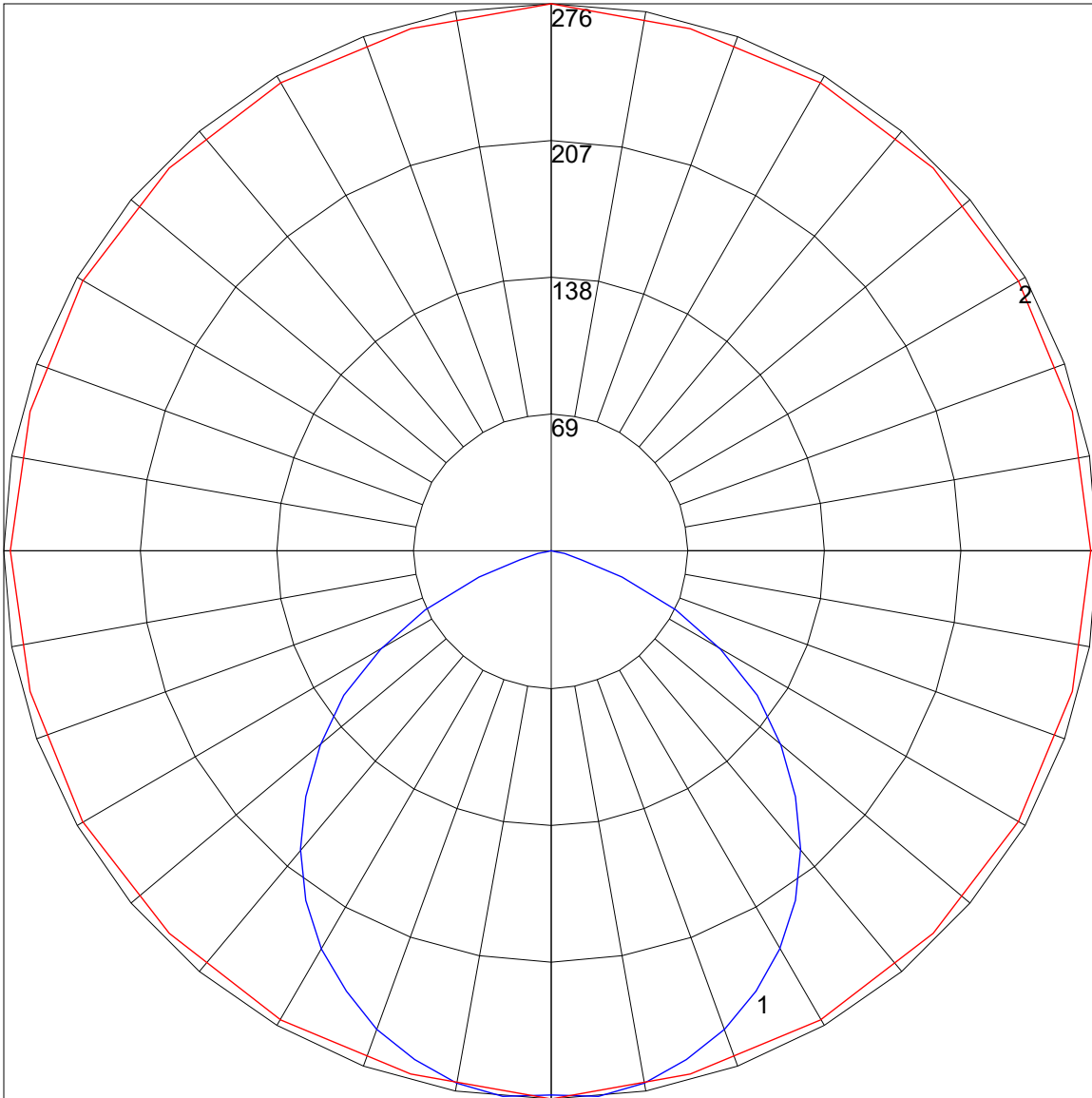
IES INDOOR REPORT
PHOTOMETRIC FILENAME : DLR 4 MD 12 WB 9SEL.IES

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	22.7	24.3	23.1	24.6	24.9	22.7	24.3	23.1	24.6	24.9
	3H	23.6	25.0	24.0	25.3	25.7	23.6	25.0	24.0	25.3	25.7
	4H	23.7	25.0	24.1	25.4	25.8	23.7	25.0	24.1	25.4	25.8
	6H	23.8	24.9	24.2	25.3	25.7	23.8	25.0	24.2	25.3	25.7
	8H	23.7	24.9	24.2	25.3	25.7	23.8	24.9	24.2	25.3	25.7
	12H	23.7	24.8	24.1	25.2	25.6	23.7	24.8	24.2	25.2	25.6
4H	2H	23.1	24.4	23.5	24.8	25.1	23.1	24.4	23.5	24.8	25.1
	3H	24.1	25.2	24.5	25.6	26.0	24.1	25.2	24.5	25.6	26.0
	4H	24.3	25.2	24.7	25.6	26.1	24.3	25.2	24.7	25.7	26.1
	6H	24.3	25.2	24.8	25.6	26.1	24.3	25.2	24.8	25.6	26.1
	8H	24.3	25.1	24.8	25.5	26.0	24.3	25.1	24.8	25.5	26.0
	12H	24.3	25.0	24.8	25.5	25.9	24.3	25.0	24.8	25.5	26.0
8H	4H	24.3	25.1	24.8	25.5	26.0	24.3	25.1	24.8	25.5	26.0
	6H	24.3	25.0	24.8	25.5	26.0	24.4	25.0	24.8	25.5	26.0
	8H	24.3	24.9	24.9	25.4	25.9	24.3	24.9	24.9	25.4	25.9
	12H	24.3	24.9	24.8	25.3	25.9	24.3	24.9	24.9	25.4	25.9
12H	4H	24.3	25.0	24.8	25.4	25.9	24.3	25.0	24.8	25.4	25.9
	6H	24.3	24.9	24.8	25.4	25.9	24.3	24.9	24.8	25.4	25.9
	8H	24.3	24.8	24.8	25.3	25.9	24.3	24.8	24.8	25.3	25.9

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 275.652 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.)