

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DRCHTMO4KAC16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] Report # 72194917-02  
[TESTLAB] TUV SUD America  
[ISSUE DATE] 11/27/2023 3:40:32 PM  
[MANUFAC] BEGHELLI  
[LUMCAT] DRCHTMO4KAC16 [120-277V] [347-480] [1AC50; 1AC72; 1CH48; DRCPKXY; DRCSPKXY; SPCY1] [CCR] [RLY; NOD  
[LUMINAIRE] 9109-2  
[ AMBIENT] 24.3 deg C  
[ POWERFACTOR] 0.995  
[ ATHD] 6.51%  
[ CURRENT] 0.74  
[ VOLTAGE] 119.98  
[ STABILIZATION] 74:04.9 Stable  
[ POWER VARIATION] 0.13%  
[ LIGHT VARIATION] 0.50%  
[ Lumens] 10013

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.35 ft
Luminous Width (90-270)	1.35 ft
Luminous Height	0.93 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5460	4672	5460
55	3325	2759	3325
65	1480	1187	1480
75	1071	825	1071
85	171	125	171

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CANDELA TABULATION

	<u>0</u>
0	16206.93
5	13090.76
10	10606.73
15	7434.74
20	5888.37
25	4987.31
30	4546.41
35	3730.90
40	1323.39
45	1106.81
50	950.41
55	642.18
60	599.73
65	262.88
70	155.18
75	167.98
80	68.42
85	22.49
90	21.13
95	18.18
100	26.37
105	25.54
110	33.27
115	42.37
120	34.64
125	36.57
130	44.09
135	40.76
140	48.84
145	39.51
150	44.17
155	50.78
160	64.47
165	78.75
170	87.57
175	84.79
180	81.95

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3366.2	N.A.	33.60
0-30	5713.36	N.A.	57.10
0-40	7775.52	N.A.	77.70
0-60	9274.53	N.A.	92.60
0-80	9737.81	N.A.	97.20
0-90	9774.45	N.A.	97.60
10-90	8576.47	N.A.	85.70
20-40	4409.32	N.A.	44.00
20-50	5274.98	N.A.	52.70
40-70	1814.57	N.A.	18.10
60-80	463.28	N.A.	4.60
70-80	147.72	N.A.	1.50
80-90	36.65	N.A.	0.40
90-110	52.13	N.A.	0.50
90-120	90.00	N.A.	0.90
90-130	124.00	N.A.	1.20
90-150	184.80	N.A.	1.80
90-180	238.73	N.A.	2.40
110-180	186.60	N.A.	1.90
0-180	10013.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1197.98
10-20	2168.22
20-30	2347.16
30-40	2062.16
40-50	865.66
50-60	633.35
60-70	315.56
70-80	147.72
80-90	36.65
90-100	22.87
100-110	29.26
110-120	37.87
120-130	34.00
130-140	33.74
140-150	27.06
150-160	24.10
160-170	21.67
170-180	8.16

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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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	112	109	106	103	109	106	104	101	102	100	98	97	96	94	94	92	91	89
2	105	99	95	91	103	98	93	90	94	90	87	90	88	85	87	85	83	81
3	99	92	86	81	97	90	85	80	87	82	79	84	80	77	81	78	76	74
4	93	85	78	73	91	83	77	73	81	76	72	78	74	71	76	72	69	68
5	88	78	72	67	86	77	71	67	75	70	66	73	69	65	71	67	64	62
6	83	73	66	62	81	72	66	61	70	65	61	69	64	60	67	63	59	58
7	79	68	62	57	77	67	61	57	66	60	56	64	59	56	63	59	55	54
8	74	64	58	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50
9	71	60	54	50	69	60	54	49	59	53	49	57	52	49	56	52	48	47
10	67	57	51	47	66	56	50	46	55	50	46	54	49	46	53	49	46	44

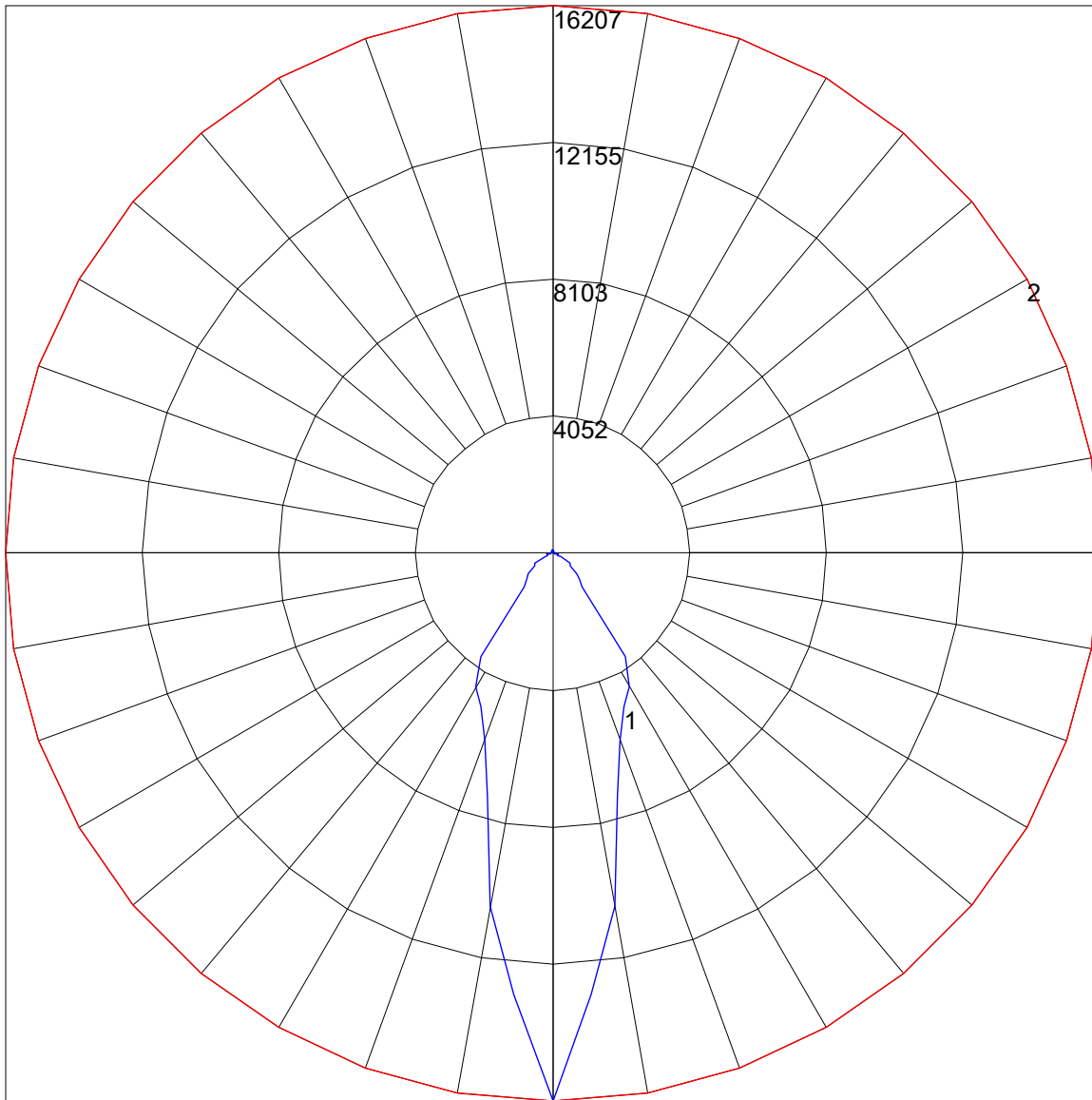
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**UGR TABLE - CORRECTED**

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	12.9	14.1	13.3	14.4	14.8	12.9	14.1	13.3	14.4	14.8
	3H	13.2	14.2	13.6	14.6	15.0	13.2	14.2	13.6	14.6	15.0
	4H	13.4	14.4	13.9	14.8	15.2	13.4	14.4	13.9	14.8	15.2
	6H	13.5	14.3	13.9	14.8	15.2	13.5	14.3	13.9	14.8	15.2
	8H	13.4	14.3	13.9	14.7	15.2	13.4	14.3	13.9	14.7	15.2
	12H	13.4	14.2	13.9	14.6	15.1	13.4	14.2	13.9	14.6	15.1
4H	2H	12.9	13.9	13.4	14.3	14.7	12.9	13.9	13.4	14.3	14.7
	3H	13.3	14.1	13.7	14.5	15.0	13.3	14.1	13.7	14.5	15.0
	4H	13.6	14.3	14.1	14.8	15.3	13.6	14.3	14.1	14.8	15.3
	6H	13.7	14.3	14.2	14.8	15.3	13.7	14.3	14.2	14.8	15.3
	8H	13.7	14.3	14.2	14.8	15.3	13.7	14.3	14.2	14.8	15.3
	12H	13.7	14.2	14.2	14.7	15.2	13.7	14.2	14.2	14.7	15.2
8H	4H	13.6	14.2	14.1	14.6	15.2	13.6	14.2	14.1	14.6	15.2
	6H	13.8	14.2	14.3	14.7	15.3	13.8	14.2	14.3	14.7	15.3
	8H	13.7	14.1	14.3	14.7	15.2	13.7	14.1	14.3	14.7	15.2
	12H	13.7	14.1	14.3	14.6	15.2	13.7	14.1	14.3	14.6	15.2
12H	4H	13.6	14.0	14.1	14.6	15.1	13.6	14.0	14.1	14.6	15.1
	6H	13.7	14.1	14.3	14.6	15.2	13.7	14.1	14.3	14.6	15.2
	8H	13.7	14.1	14.3	14.6	15.2	13.7	14.1	14.3	14.6	15.2

Maximum UGR = 15.3

POLAR GRAPH



Maximum Candela = 16206.93 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.)