

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DRCHTHO4KAC16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] Report # 72194917-02  
[TESTLAB] TUV SUD America  
[ISSUEDATE] 11/27/2023 3:40:32 PM  
[MANUFAC] BEGHELLI  
[LUMCAT] DRCHTHO4KAC16 [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] 12871

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12871
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	90
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
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	7044	6027	7044
55	4279	3551	4279
65	1896	1521	1896
75	1381	1064	1381
85	222	162	222

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CANDELA TABULATION

	<u>0</u>
0	20789.150
5	16818.211
10	13645.080
15	9575.910
20	7572.210
25	6407.740
30	5840.750
35	4800.320
40	1697.090
45	1427.950
50	1220.150
55	826.370
60	766.920
65	336.840
70	198.070
75	216.460
80	87.190
85	29.060
90	27.410
95	23.450
100	32.760
105	31.780
110	42.790
115	54.220
120	44.670
125	46.910
130	56.820
135	52.920
140	63.870
145	51.130
150	57.450
155	63.890
160	84.400
165	102.500
170	110.020
175	107.920
180	103.680

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4330.05	N.A.	33.60
0-30	7346.35	N.A.	57.10
0-40	9997.36	N.A.	77.70
0-60	11924.34	N.A.	92.60
0-80	12517.71	N.A.	97.30
0-90	12564.76	N.A.	97.60
10-90	11025.41	N.A.	85.70
20-40	5667.31	N.A.	44.00
20-50	6781.03	N.A.	52.70
40-70	2330.75	N.A.	18.10
60-80	593.37	N.A.	4.60
70-80	189.60	N.A.	1.50
80-90	47.05	N.A.	0.40
90-110	65.96	N.A.	0.50
90-120	114.56	N.A.	0.90
90-130	158.29	N.A.	1.20
90-150	237.26	N.A.	1.80
90-180	306.51	N.A.	2.40
110-180	240.55	N.A.	1.90
0-180	12871.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1539.35
10-20	2790.7
20-30	3016.3
30-40	2651.02
40-50	1113.71
50-60	813.27
60-70	403.77
70-80	189.60
80-90	47.05
90-100	29.20
100-110	36.76
110-120	48.60
120-130	43.72
130-140	43.80
140-150	35.18
150-160	30.91
160-170	28.01
170-180	10.33

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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	100	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	73	70	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	60	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	49	47
10	67	57	51	47	66	56	50	46	55	50	46	54	49	46	54	49	46	44

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**UGR TABLE - CORRECTED**

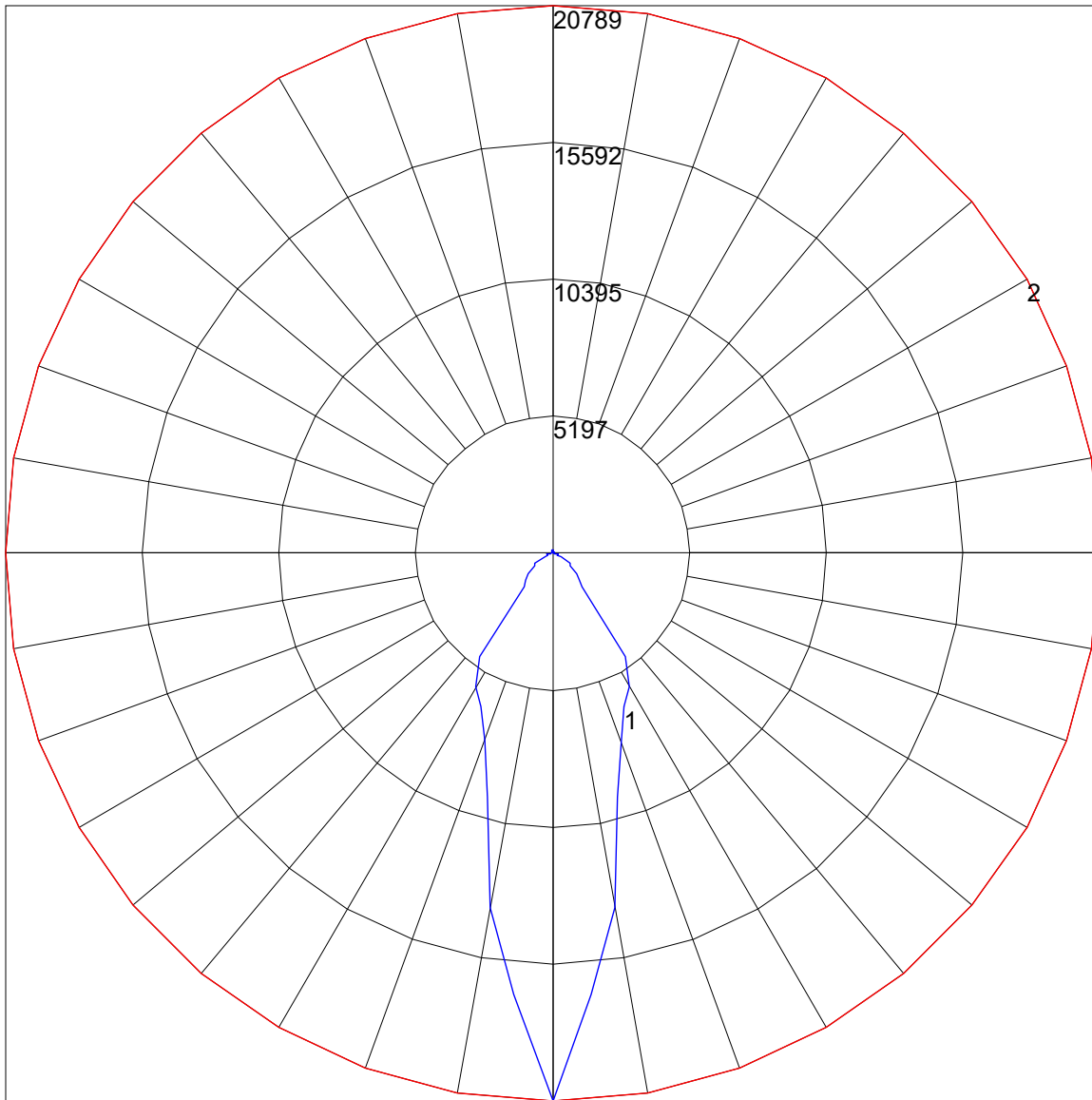
Reflectances

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	13.8	15.0	14.2	15.3	15.7	13.8	15.0	14.2	15.3	15.7
	3H	14.1	15.1	14.5	15.5	15.9	14.1	15.1	14.5	15.5	15.9
	4H	14.3	15.2	14.7	15.6	16.1	14.3	15.2	14.7	15.6	16.1
	6H	14.3	15.2	14.8	15.6	16.1	14.3	15.2	14.8	15.6	16.1
	8H	14.3	15.2	14.8	15.6	16.0	14.3	15.2	14.8	15.6	16.0
	12H	14.3	15.1	14.8	15.5	16.0	14.3	15.1	14.8	15.5	16.0
4H	2H	13.8	14.8	14.3	15.1	15.6	13.8	14.8	14.3	15.1	15.6
	3H	14.2	14.9	14.6	15.4	15.8	14.2	14.9	14.6	15.4	15.8
	4H	14.5	15.2	15.0	15.6	16.1	14.5	15.2	15.0	15.6	16.1
	6H	14.6	15.2	15.1	15.7	16.2	14.6	15.2	15.1	15.7	16.2
	8H	14.6	15.2	15.1	15.6	16.2	14.6	15.2	15.1	15.6	16.2
	12H	14.6	15.0	15.1	15.6	16.1	14.6	15.0	15.1	15.6	16.1
8H	4H	14.5	15.0	15.0	15.5	16.1	14.5	15.0	15.0	15.5	16.1
	6H	14.6	15.1	15.2	15.6	16.2	14.6	15.1	15.2	15.6	16.2
	8H	14.6	15.0	15.2	15.6	16.1	14.6	15.0	15.2	15.6	16.1
	12H	14.6	15.0	15.2	15.5	16.1	14.6	15.0	15.2	15.5	16.1
12H	4H	14.4	14.9	15.0	15.5	16.0	14.4	14.9	15.0	15.5	16.0
	6H	14.6	15.0	15.2	15.5	16.1	14.6	15.0	15.2	15.5	16.1
	8H	14.6	15.0	15.2	15.5	16.1	14.6	15.0	15.2	15.5	16.1

Maximum UGR = 16.2

POLAR GRAPH



Maximum Candela = 20789.15 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.)