

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTHO5KAL12.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] DRCHTHO5KAL12[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] 12230

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12230
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	90
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.78
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.04 ft
Luminous Width (90-270)	1.03 ft
Luminous Height	0.65 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3555	3065	3553
55	1610	1346	1609
65	1198	968	1197
75	702	544	701
85	154	113	154

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CANDELA TABULATION

	<u>0</u>
0	20261.75
5	16906.56
10	12201.72
15	9880.69
20	9173.37
25	8488.77
30	7087.70
35	5404.24
40	2077.06
45	407.80
50	241.41
55	174.48
60	146.33
65	118.37
70	89.22
75	60.45
80	34.09
85	10.94
90	0.20
95	0.01
100	0.04
105	0.08
110	0.15
115	0.16
120	0.21
125	0.16
130	0.14
135	0.08
140	0.08
145	0.06
150	0.04
155	0.05
160	0.03
165	0.02
170	0.01
175	0.02
180	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4365.87	N.A.	35.70
0-30	8189.51	N.A.	67.00
0-40	11277.24	N.A.	92.20
0-60	12033.1	N.A.	98.40
0-80	12214.43	N.A.	99.90
0-90	12229.71	N.A.	100.00
10-90	10744.08	N.A.	87.80
20-40	6911.37	N.A.	56.50
20-50	7502.65	N.A.	61.30
40-70	872.77	N.A.	7.10
60-80	181.33	N.A.	1.50
70-80	64.42	N.A.	0.50
80-90	15.29	N.A.	0.10
90-110	0.16	N.A.	0.00
90-120	0.33	N.A.	0.00
90-130	0.48	N.A.	0.00
90-150	0.59	N.A.	0.00
90-180	0.62	N.A.	0.00
110-180	0.46	N.A.	0.00
0-180	12230.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1485.63
10-20	2880.24
20-30	3823.65
30-40	3087.72
40-50	591.27
50-60	164.58
60-70	116.91
70-80	64.42
80-90	15.29
90-100	0.07
100-110	0.09
110-120	0.17
120-130	0.15
130-140	0.07
140-150	0.04
150-160	0.02
160-170	0.01
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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	78	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	72	80	76	72	79	74	71	77	73	71	69
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

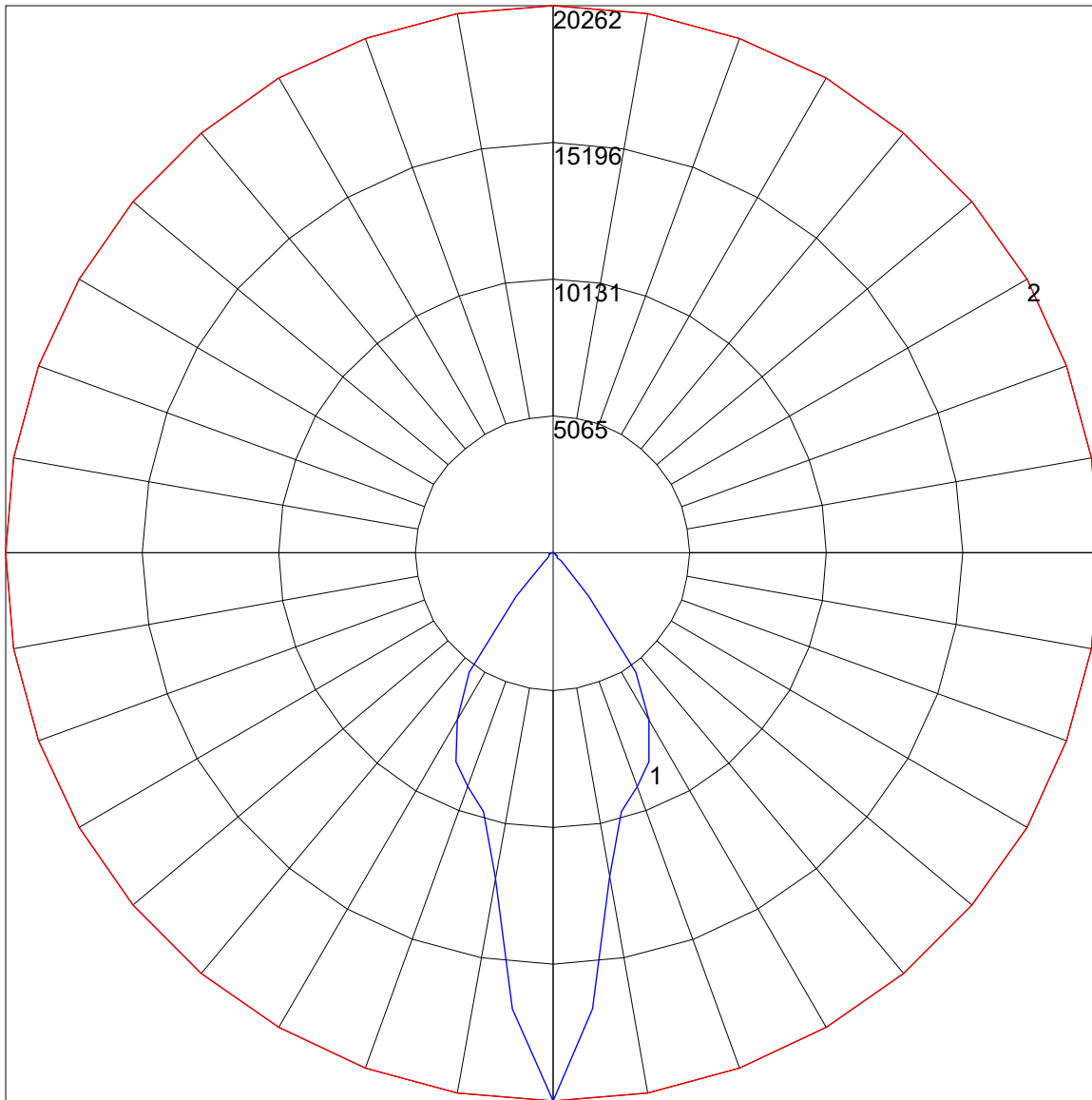
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**UGR TABLE - CORRECTED**

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	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	3H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	4H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	6H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	8H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	12H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
4H	2H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	3H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	4H	8.7	8.7	8.7	8.7	9.0	8.7	8.7	8.7	8.7	9.0
	6H	8.7	8.7	8.7	8.7	9.2	8.7	8.7	8.7	8.7	9.2
	8H	8.7	8.7	8.7	8.7	9.2	8.7	8.7	8.7	8.7	9.2
	12H	8.7	8.7	8.7	8.7	9.1	8.7	8.7	8.7	8.7	9.1
8H	4H	8.7	8.7	8.7	8.7	9.0	8.7	8.7	8.7	8.7	9.0
	6H	8.7	8.7	8.7	8.7	9.2	8.7	8.7	8.7	8.8	9.2
	8H	8.7	8.7	8.7	8.8	9.3	8.7	8.7	8.7	8.8	9.3
	12H	8.7	8.7	8.7	8.7	9.3	8.7	8.7	8.7	8.7	9.3
12H	4H	8.7	8.7	8.7	8.7	8.9	8.7	8.7	8.7	8.7	8.9
	6H	8.7	8.7	8.7	8.7	9.2	8.7	8.7	8.7	8.7	9.2
	8H	8.7	8.7	8.7	8.7	9.3	8.7	8.7	8.7	8.7	9.3

Maximum UGR = 9.3

POLAR GRAPH



Maximum Candela = 20261.75 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.)