

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTHO3KAL12.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] DRCHTHO3KAL12 [120-277V] [347-480] [1AC50; 1AC72; 1CH48; DRC PKXY; 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] 11298

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11298
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	3300	2845	3298
55	1490	1246	1489
65	1110	897	1109
75	632	490	631
85	139	102	139

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CANDELA TABULATION

	<u>0</u>
0	18640.449
5	15627.020
10	11274.980
15	9127.490
20	8473.080
25	7851.210
30	6536.960
35	4996.460
40	1917.970
45	378.510
50	223.070
55	161.500
60	134.480
65	109.640
70	83.290
75	54.460
80	31.350
85	9.870
90	0.140
95	0.010
100	0.040
105	0.080
110	0.120
115	0.140
120	0.160
125	0.120
130	0.100
135	0.110
140	0.100
145	0.070
150	0.070
155	0.060
160	0.030
165	0.010
170	0.020
175	0.020
180	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4032.82	N.A.	35.70
0-30	7565.77	N.A.	67.00
0-40	10417.77	N.A.	92.20
0-60	11116.57	N.A.	98.40
0-80	11283.74	N.A.	99.90
0-90	11297.68	N.A.	100.00
10-90	9925.65	N.A.	87.90
20-40	6384.95	N.A.	56.50
20-50	6931.72	N.A.	61.40
40-70	807.00	N.A.	7.10
60-80	167.16	N.A.	1.50
70-80	58.97	N.A.	0.50
80-90	13.94	N.A.	0.10
90-110	0.14	N.A.	0.00
90-120	0.28	N.A.	0.00
90-130	0.39	N.A.	0.00
90-150	0.52	N.A.	0.00
90-180	0.55	N.A.	0.00
110-180	0.41	N.A.	0.00
0-180	11298.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1372.03
10-20	2660.8
20-30	3532.95
30-40	2852.00
40-50	546.77
50-60	152.03
60-70	108.20
70-80	58.97
80-90	13.94
90-100	0.05
100-110	0.08
110-120	0.14
120-130	0.11
130-140	0.08
140-150	0.05
150-160	0.03
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

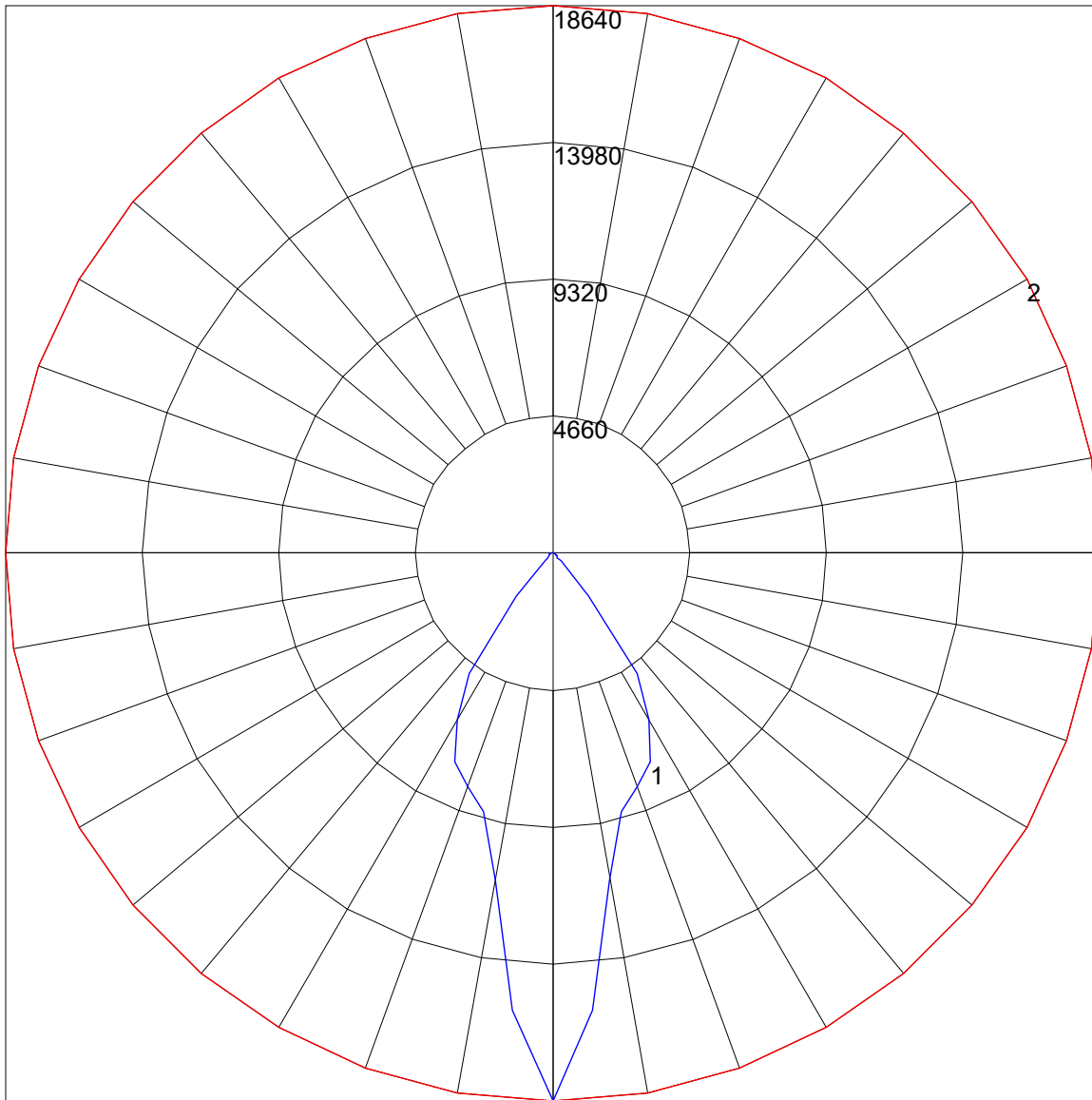
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UGR TABLE - CORRECTED

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	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	3H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	4H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	6H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	8H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	12H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
4H	2H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	3H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	4H	8.4	8.4	8.4	8.4	8.6	8.4	8.4	8.4	8.4	8.6
	6H	8.4	8.4	8.4	8.4	8.9	8.4	8.4	8.4	8.4	8.9
	8H	8.4	8.4	8.4	8.4	8.9	8.4	8.4	8.4	8.4	8.9
	12H	8.4	8.4	8.4	8.4	8.8	8.4	8.4	8.4	8.4	8.8
8H	4H	8.4	8.4	8.4	8.4	8.6	8.4	8.4	8.4	8.4	8.6
	6H	8.4	8.4	8.4	8.4	8.9	8.4	8.4	8.4	8.4	8.9
	8H	8.4	8.4	8.4	8.5	9.0	8.4	8.4	8.4	8.5	9.0
	12H	8.4	8.4	8.4	8.4	9.0	8.4	8.4	8.4	8.4	9.0
12H	4H	8.4	8.4	8.4	8.4	8.6	8.4	8.4	8.4	8.4	8.6
	6H	8.4	8.4	8.4	8.4	8.9	8.4	8.4	8.4	8.4	8.9
	8H	8.4	8.4	8.4	8.4	9.0	8.4	8.4	8.4	8.4	9.0

Maximum UGR = 9.0

POLAR GRAPH



Maximum Candela = 18640.449 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.)