

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTHO4KAL12.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] DRCHTHO4KAL12[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] 12162

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12162
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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	1602	1339	1601
65	1206	974	1205
75	695	539	695
85	151	110	150

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CANDELA TABULATION

	<u>0</u>
0	20075.650
5	16821.641
10	12126.580
15	9825.250
20	9113.950
25	8438.350
30	7053.260
35	5373.500
40	2066.890
45	407.830
50	239.890
55	173.620
60	144.610
65	119.110
70	89.900
75	59.910
80	33.560
85	10.680
90	0.170
95	0.020
100	0.030
105	0.090
110	0.130
115	0.180
120	0.170
125	0.130
130	0.130
135	0.110
140	0.040
145	0.060
150	0.050
155	0.050
160	0.050
165	0.010
170	0.030
175	0.000
180	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4339.69	N.A.	35.70
0-30	8141.08	N.A.	66.90
0-40	11212.38	N.A.	92.20
0-60	11964.94	N.A.	98.40
0-80	12146.14	N.A.	99.90
0-90	12161.14	N.A.	100.00
10-90	10684.47	N.A.	87.90
20-40	6872.69	N.A.	56.50
20-50	7461.78	N.A.	61.40
40-70	869.60	N.A.	7.20
60-80	181.20	N.A.	1.50
70-80	64.17	N.A.	0.50
80-90	14.99	N.A.	0.10
90-110	0.16	N.A.	0.00
90-120	0.32	N.A.	0.00
90-130	0.44	N.A.	0.00
90-150	0.55	N.A.	0.00
90-180	0.59	N.A.	0.00
110-180	0.43	N.A.	0.00
0-180	12161.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1476.67
10-20	2863.02
20-30	3801.39
30-40	3071.3
40-50	589.10
50-60	163.47
60-70	117.03
70-80	64.17
80-90	14.99
90-100	0.07
100-110	0.09
110-120	0.16
120-130	0.13
130-140	0.08
140-150	0.03
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	102	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	85	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60
8	79	69	63	59	77	68	63	58	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

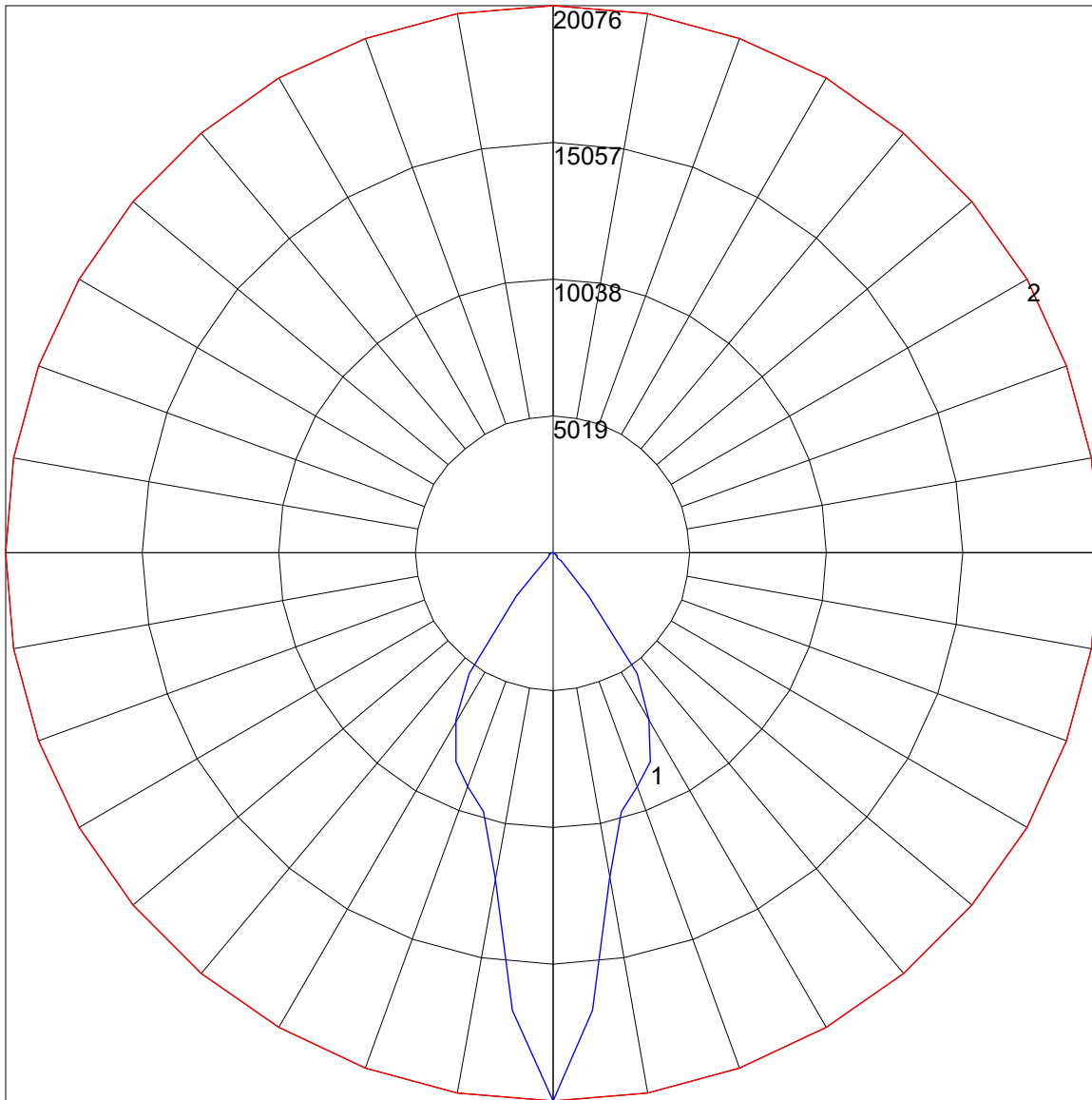
IES INDOOR REPORT
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UGR TABLE - CORRECTED

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	8.8	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 = 20075.65 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.)