

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO4KAL12.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] DRCHTMO4KAL12 [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] 9460

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9460
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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)	0.78
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	2770	2388	2768
55	1246	1042	1245
65	935	756	935
75	544	421	543
85	119	88	119

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CANDELA TABULATION

	<u>0</u>
0	15678.43
5	13085.60
10	9421.10
15	7648.57
20	7084.96
25	6569.84
30	5486.10
35	4179.05
40	1604.59
45	317.73
50	186.46
55	135.05
60	113.14
65	92.40
70	69.04
75	46.86
80	26.38
85	8.47
90	0.13
95	0.02
100	0.03
105	0.05
110	0.10
115	0.12
120	0.12
125	0.12
130	0.10
135	0.08
140	0.06
145	0.06
150	0.04
155	0.04
160	0.03
165	0.03
170	0.02
175	0.00
180	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3375.81	N.A.	35.70
0-30	6333.64	N.A.	67.00
0-40	8721.86	N.A.	92.20
0-60	9306.94	N.A.	98.40
0-80	9447.68	N.A.	99.90
0-90	9459.5	N.A.	100.00
10-90	8310.5	N.A.	87.80
20-40	5346.04	N.A.	56.50
20-50	5803.86	N.A.	61.40
40-70	675.93	N.A.	7.10
60-80	140.74	N.A.	1.50
70-80	49.89	N.A.	0.50
80-90	11.82	N.A.	0.10
90-110	0.12	N.A.	0.00
90-120	0.23	N.A.	0.00
90-130	0.33	N.A.	0.00
90-150	0.43	N.A.	0.00
90-180	0.46	N.A.	0.00
110-180	0.34	N.A.	0.00
0-180	9459.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1149.00
10-20	2226.81
20-30	2957.83
30-40	2388.22
40-50	457.81
50-60	127.28
60-70	90.84
70-80	49.89
80-90	11.82
90-100	0.05
100-110	0.06
110-120	0.11
120-130	0.10
130-140	0.06
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

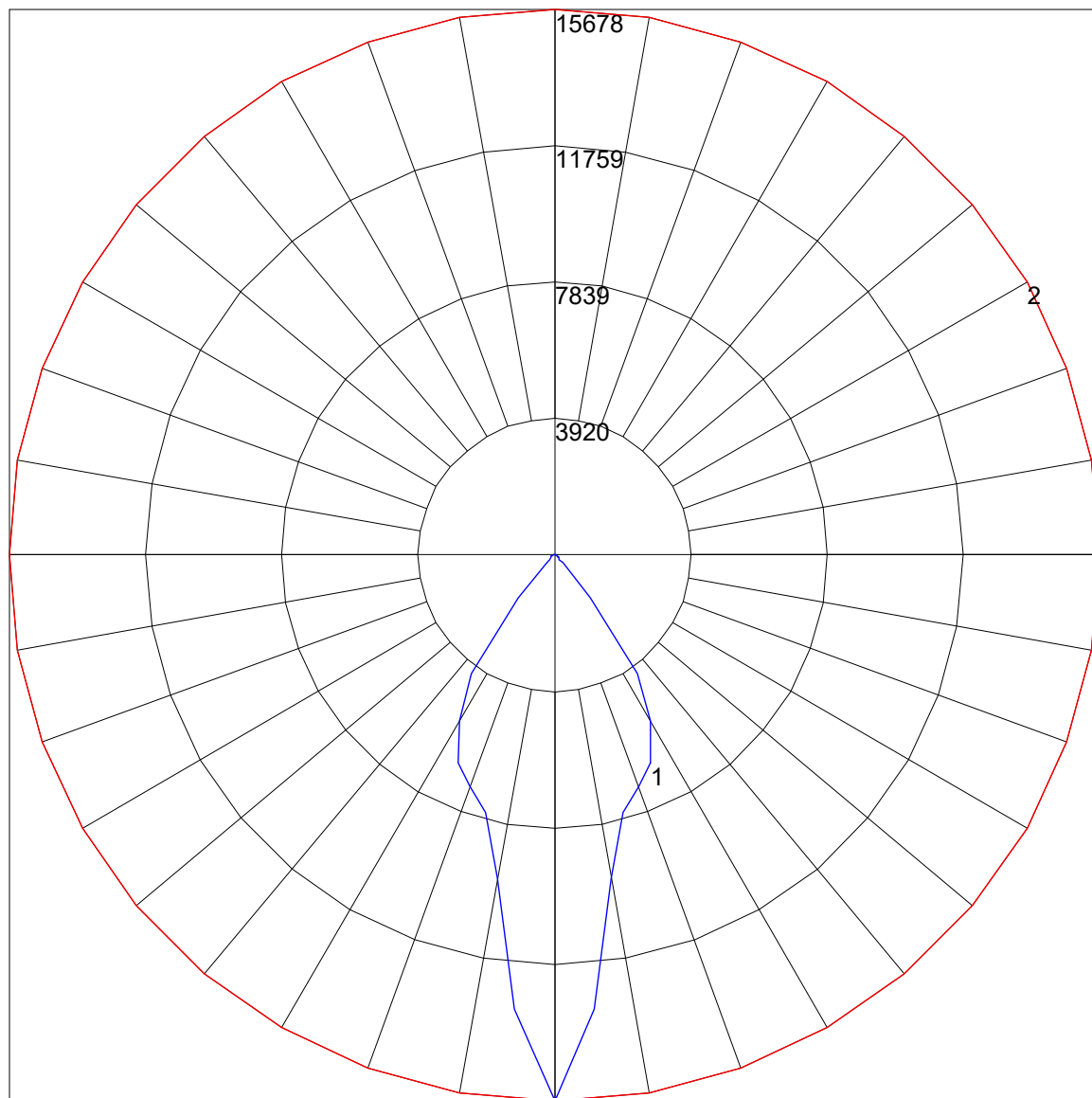
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UGR TABLE - CORRECTED

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	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	3H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	4H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	6H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	8H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	12H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
4H	2H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	3H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	4H	7.8	7.8	7.8	7.8	8.1	7.8	7.8	7.8	7.8	8.1
	6H	7.8	7.8	7.8	7.8	8.3	7.8	7.8	7.8	7.8	8.3
	8H	7.8	7.8	7.8	7.8	8.3	7.8	7.8	7.8	7.8	8.3
	12H	7.8	7.8	7.8	7.8	8.2	7.8	7.8	7.8	7.8	8.2
8H	4H	7.8	7.8	7.8	7.8	8.1	7.8	7.8	7.8	7.8	8.1
	6H	7.8	7.8	7.8	7.9	8.3	7.8	7.8	7.8	7.9	8.3
	8H	7.8	7.8	7.8	7.9	8.4	7.8	7.8	7.8	7.9	8.4
	12H	7.8	7.8	7.8	7.8	8.4	7.8	7.8	7.8	7.8	8.4
12H	4H	7.8	7.8	7.8	7.8	8.0	7.8	7.8	7.8	7.8	8.0
	6H	7.8	7.8	7.8	7.8	8.3	7.8	7.8	7.8	7.8	8.3
	8H	7.8	7.8	7.8	7.8	8.4	7.8	7.8	7.8	7.8	8.4

Maximum UGR = 8.4

POLAR GRAPH



Maximum Candela = 15678.43 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.)