

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTLO4KAC16.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] DRCHTLO4KAC16 [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] 7152

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7152
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
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	3905	3341	3905
55	2377	1972	2377
65	1061	851	1061
75	761	587	761
85	121	88	121

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CANDELA TABULATION

	<u>0</u>
0	11612.26
5	9356.76
10	7574.97
15	5315.69
20	4207.47
25	3559.93
30	3245.23
35	2665.60
40	942.02
45	791.58
50	677.39
55	459.02
60	427.38
65	188.57
70	111.10
75	119.39
80	49.01
85	15.87
90	15.23
95	12.90
100	18.54
105	18.08
110	23.69
115	30.05
120	24.95
125	25.89
130	31.78
135	29.34
140	35.71
145	28.27
150	32.12
155	36.03
160	46.02
165	55.89
170	62.27
175	61.43
180	58.55

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2405.89	N.A.	33.60
0-30	4081.74	N.A.	57.10
0-40	5554.06	N.A.	77.70
0-60	6623.86	N.A.	92.60
0-80	6954.78	N.A.	97.20
0-90	6980.92	N.A.	97.60
10-90	6124.54	N.A.	85.60
20-40	3148.17	N.A.	44.00
20-50	3765.99	N.A.	52.70
40-70	1295.42	N.A.	18.10
60-80	330.92	N.A.	4.60
70-80	105.31	N.A.	1.50
80-90	26.14	N.A.	0.40
90-110	36.96	N.A.	0.50
90-120	63.94	N.A.	0.90
90-130	88.23	N.A.	1.20
90-150	132.19	N.A.	1.80
90-180	170.69	N.A.	2.40
110-180	133.73	N.A.	1.90
0-180	7151.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	856.38
10-20	1549.51
20-30	1675.86
30-40	1472.32
40-50	617.82
50-60	451.98
60-70	225.62
70-80	105.31
80-90	26.14
90-100	16.25
100-110	20.72
110-120	26.98
120-130	24.29
130-140	24.39
140-150	19.57
150-160	17.23
160-170	15.41
170-180	5.86

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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	99	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	72	69	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	59	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	53	49	46	44

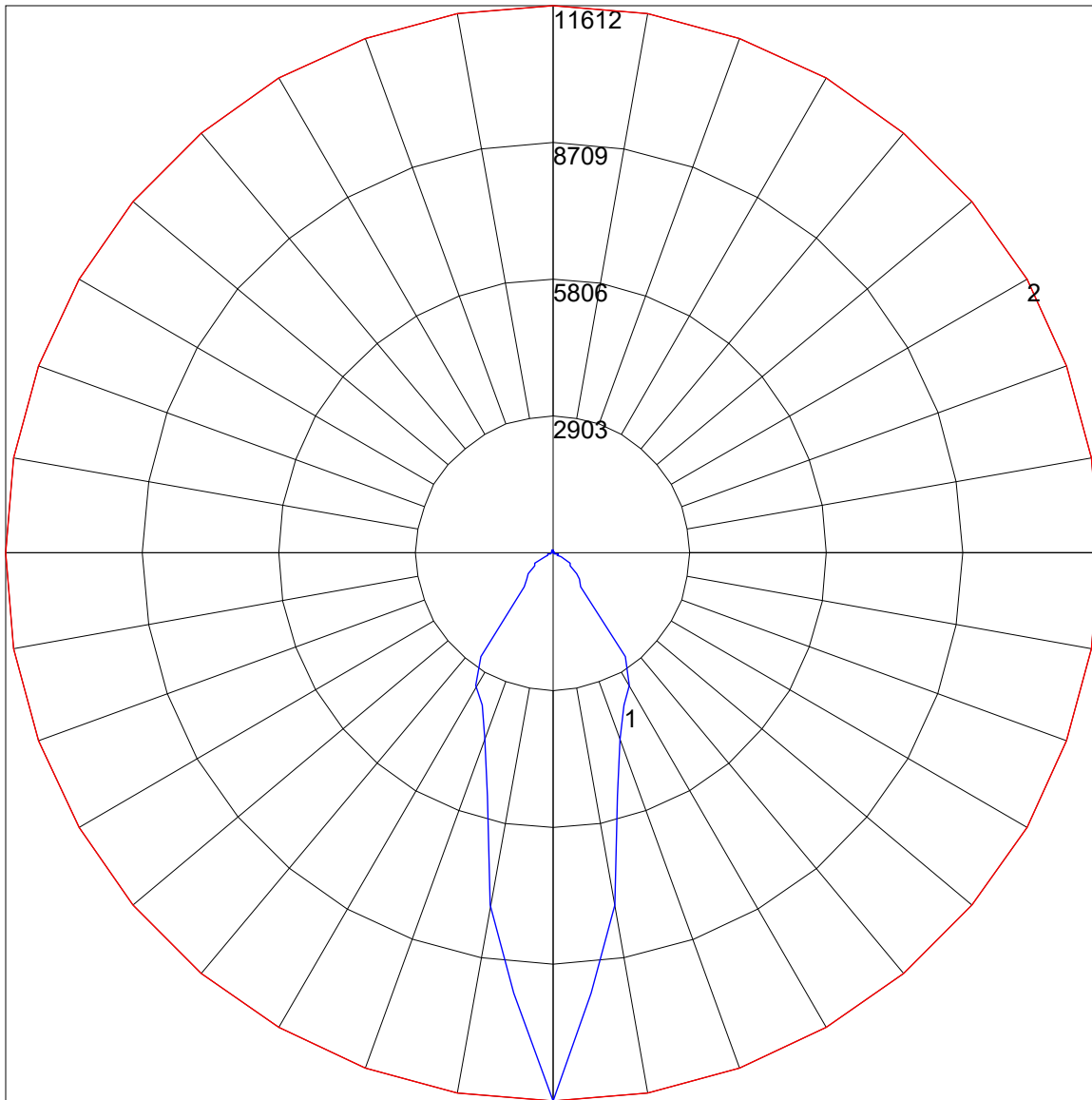
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UGR TABLE - CORRECTED

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	11.7	12.9	12.1	13.2	13.6	11.7	12.9	12.1	13.2	13.6
	3H	12.0	13.0	12.4	13.4	13.8	12.0	13.0	12.4	13.4	13.8
	4H	12.2	13.2	12.7	13.5	14.0	12.2	13.2	12.7	13.5	14.0
	6H	12.3	13.1	12.7	13.6	14.0	12.3	13.1	12.7	13.6	14.0
	8H	12.2	13.1	12.7	13.5	14.0	12.2	13.1	12.7	13.5	14.0
	12H	12.2	13.0	12.7	13.4	13.9	12.2	13.0	12.7	13.4	13.9
4H	2H	11.7	12.7	12.2	13.1	13.5	11.7	12.7	12.2	13.1	13.5
	3H	12.1	12.9	12.5	13.3	13.8	12.1	12.9	12.5	13.3	13.8
	4H	12.4	13.1	12.9	13.6	14.0	12.4	13.1	12.9	13.6	14.0
	6H	12.5	13.1	13.0	13.6	14.1	12.5	13.1	13.0	13.6	14.1
	8H	12.5	13.1	13.0	13.5	14.1	12.5	13.1	13.0	13.5	14.1
	12H	12.5	13.0	13.0	13.5	14.0	12.5	13.0	13.0	13.5	14.0
8H	4H	12.4	13.0	12.9	13.4	14.0	12.4	13.0	12.9	13.4	14.0
	6H	12.6	13.0	13.1	13.5	14.1	12.6	13.0	13.1	13.5	14.1
	8H	12.5	12.9	13.1	13.5	14.0	12.5	12.9	13.1	13.5	14.0
	12H	12.5	12.9	13.1	13.4	14.0	12.5	12.9	13.1	13.4	14.0
12H	4H	12.3	12.8	12.9	13.4	13.9	12.3	12.8	12.9	13.4	13.9
	6H	12.5	12.9	13.1	13.4	14.0	12.5	12.9	13.1	13.4	14.0
	8H	12.5	12.9	13.1	13.4	14.0	12.5	12.9	13.1	13.4	14.0

Maximum UGR = 14.1

POLAR GRAPH



Maximum Candela = 11612.26 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.)