

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTLO4KAC12.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] INDOOR / LOW / HIGH BAY LUMINAIRE
[LUMINAIRE] DRCHTLO4KAC12120-277V
[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] 7857

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7857
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.04 ft
Luminous Width (90-270)	1.03 ft
Luminous Height	0.64 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3434	2963	3434
55	2014	1686	2014
65	1814	1467	1814
75	1309	1015	1309
85	1099	806	1099

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CANDELA TABULATION

	<u>0</u>
0	9914.08
5	8620.72
10	6481.78
15	5167.44
20	5712.38
25	5533.98
30	4401.71
35	3127.41
40	1025.60
45	392.14
50	339.10
55	217.22
60	193.87
65	178.09
70	150.26
75	112.00
80	68.78
85	77.32
90	43.61
95	34.34
100	31.73
105	32.82
110	36.19
115	39.74
120	42.47
125	50.26
130	61.09
135	63.23
140	59.52
145	46.99
150	42.80
155	44.17
160	42.90
165	49.14
170	62.23
175	79.27
180	84.14

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2349.52	N.A.	29.90
0-30	4786.42	N.A.	60.90
0-40	6588.04	N.A.	83.80
0-60	7214.28	N.A.	91.80
0-80	7504.77	N.A.	95.50
0-90	7577.58	N.A.	96.40
10-90	6815.74	N.A.	86.70
20-40	4238.52	N.A.	53.90
20-50	4648.78	N.A.	59.20
40-70	799.81	N.A.	10.20
60-80	290.49	N.A.	3.70
70-80	116.92	N.A.	1.50
80-90	72.81	N.A.	0.90
90-110	74.61	N.A.	0.90
90-120	113.82	N.A.	1.40
90-130	159.46	N.A.	2.00
90-150	238.30	N.A.	3.00
90-180	279.65	N.A.	3.60
110-180	205.04	N.A.	2.60
0-180	7857.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	761.84
10-20	1587.67
20-30	2436.91
30-40	1801.61
40-50	410.26
50-60	215.98
60-70	173.56
70-80	116.92
80-90	72.81
90-100	39.30
100-110	35.31
110-120	39.21
120-130	45.65
130-140	47.85
140-150	30.99
150-160	20.14
160-170	14.19
170-180	7.02

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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	109	109	109	104	104	104	99	99	99	96
1	112	108	105	103	109	106	103	101	101	99	97	97	95	94	93	91	90	88
2	105	100	95	91	103	98	93	90	94	90	87	90	87	85	87	85	83	81
3	99	92	86	82	97	90	85	81	87	83	79	84	80	77	81	78	76	74
4	94	85	79	74	91	84	78	74	81	76	72	79	74	71	76	73	70	68
5	88	79	73	68	86	78	72	68	76	71	67	74	69	66	72	68	65	63
6	84	74	67	63	82	73	67	62	71	66	61	69	64	61	67	63	60	58
7	79	69	62	58	77	68	62	58	66	61	57	65	60	56	63	59	56	54
8	75	65	58	54	73	64	58	54	62	57	53	61	56	53	60	56	52	51
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	52	49	47
10	68	57	51	47	66	57	51	47	56	50	46	55	50	46	54	49	46	44

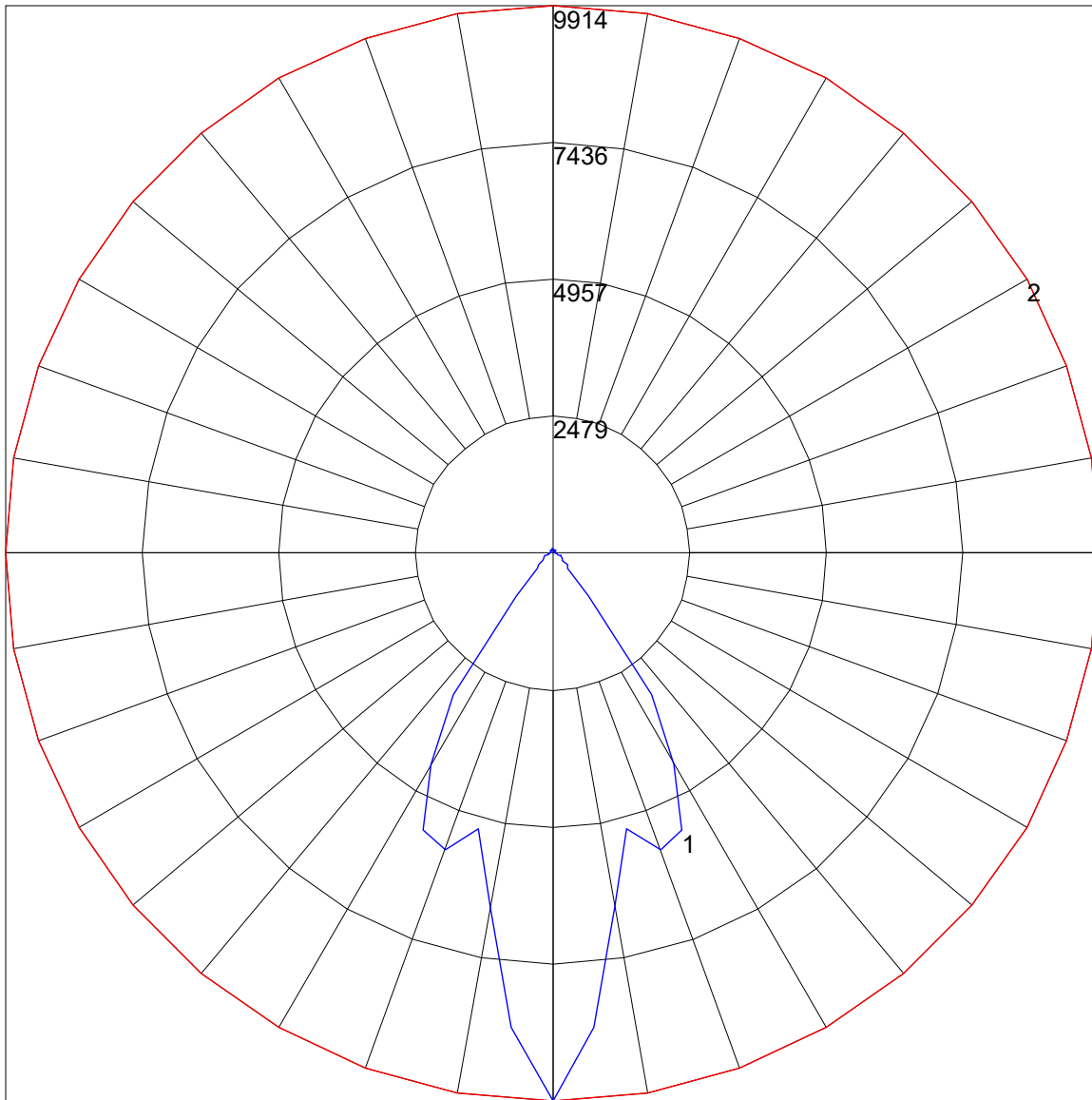
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UGR TABLE - CORRECTED

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	8.2	9.2	8.7	9.6	10.1	8.2	9.2	8.7	9.6	10.1
	3H	10.3	11.2	10.7	11.6	12.0	10.3	11.2	10.7	11.6	12.0
	4H	10.9	11.8	11.4	12.2	12.7	10.9	11.8	11.4	12.2	12.7
	6H	11.3	12.1	11.8	12.6	13.1	11.3	12.1	11.8	12.6	13.1
	8H	11.5	12.2	12.0	12.7	13.2	11.5	12.2	12.0	12.7	13.2
	12H	11.8	12.5	12.3	12.9	13.5	11.8	12.5	12.3	12.9	13.5
4H	2H	8.8	9.6	9.3	10.1	10.5	8.8	9.6	9.3	10.1	10.5
	3H	11.0	11.7	11.5	12.1	12.6	11.0	11.7	11.5	12.1	12.6
	4H	11.7	12.4	12.3	12.9	13.4	11.7	12.4	12.3	12.9	13.4
	6H	12.2	12.8	12.8	13.3	13.9	12.2	12.8	12.8	13.3	13.9
	8H	12.5	13.0	13.0	13.5	14.1	12.5	13.0	13.0	13.5	14.1
	12H	12.8	13.2	13.4	13.8	14.4	12.8	13.2	13.4	13.8	14.4
8H	4H	11.9	12.4	12.5	12.9	13.5	11.9	12.4	12.5	12.9	13.5
	6H	12.5	12.9	13.1	13.5	14.1	12.5	12.9	13.1	13.5	14.1
	8H	12.9	13.2	13.4	13.8	14.4	12.9	13.2	13.4	13.8	14.4
	12H	13.4	13.7	14.0	14.2	14.9	13.4	13.7	14.0	14.2	14.9
12H	4H	11.9	12.3	12.5	12.9	13.5	11.9	12.3	12.5	12.9	13.5
	6H	12.5	12.9	13.1	13.4	14.1	12.5	12.9	13.1	13.4	14.1
	8H	13.0	13.3	13.6	13.8	14.5	13.0	13.3	13.6	13.8	14.5

Maximum UGR = 14.9

POLAR GRAPH



Maximum Candela = 9914.08 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.)