

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DRCHTLO3KAC12.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] DRCHTLO3KAC12120-277V  
[ 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] 7300

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7300
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	3185	2749	3185
55	1872	1567	1872
65	1678	1357	1678
75	1212	940	1212
85	1014	744	1013

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CANDELA TABULATION

	<u>0</u>
0	9237.64
5	8012.68
10	6032.23
15	4798.17
20	5305.50
25	5131.66
30	4097.98
35	2904.75
40	951.39
45	363.75
50	316.49
55	201.86
60	180.83
65	164.79
70	139.45
75	103.74
80	63.48
85	71.29
90	41.06
95	31.77
100	28.87
105	30.33
110	33.94
115	37.69
120	39.69
125	46.41
130	56.90
135	58.64
140	54.98
145	43.46
150	40.54
155	41.08
160	39.17
165	44.38
170	56.92
175	74.09
180	74.47

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2183.79	N.A.	29.90
0-30	4446.47	N.A.	60.90
0-40	6121.04	N.A.	83.90
0-60	6703.17	N.A.	91.80
0-80	6972.53	N.A.	95.50
0-90	7039.92	N.A.	96.40
10-90	6331.26	N.A.	86.70
20-40	3937.25	N.A.	53.90
20-50	4318.21	N.A.	59.20
40-70	743.18	N.A.	10.20
60-80	269.37	N.A.	3.70
70-80	108.31	N.A.	1.50
80-90	67.38	N.A.	0.90
90-110	69.06	N.A.	0.90
90-120	106.01	N.A.	1.50
90-130	148.37	N.A.	2.00
90-150	221.55	N.A.	3.00
90-180	259.65	N.A.	3.60
110-180	190.59	N.A.	2.60
0-180	7299.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	708.65
10-20	1475.14
20-30	2262.68
30-40	1674.57
40-50	380.96
50-60	201.16
60-70	161.06
70-80	108.31
80-90	67.38
90-100	36.42
100-110	32.64
110-120	36.95
120-130	42.36
130-140	44.38
140-150	28.79
150-160	18.75
160-170	12.89
170-180	6.46

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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

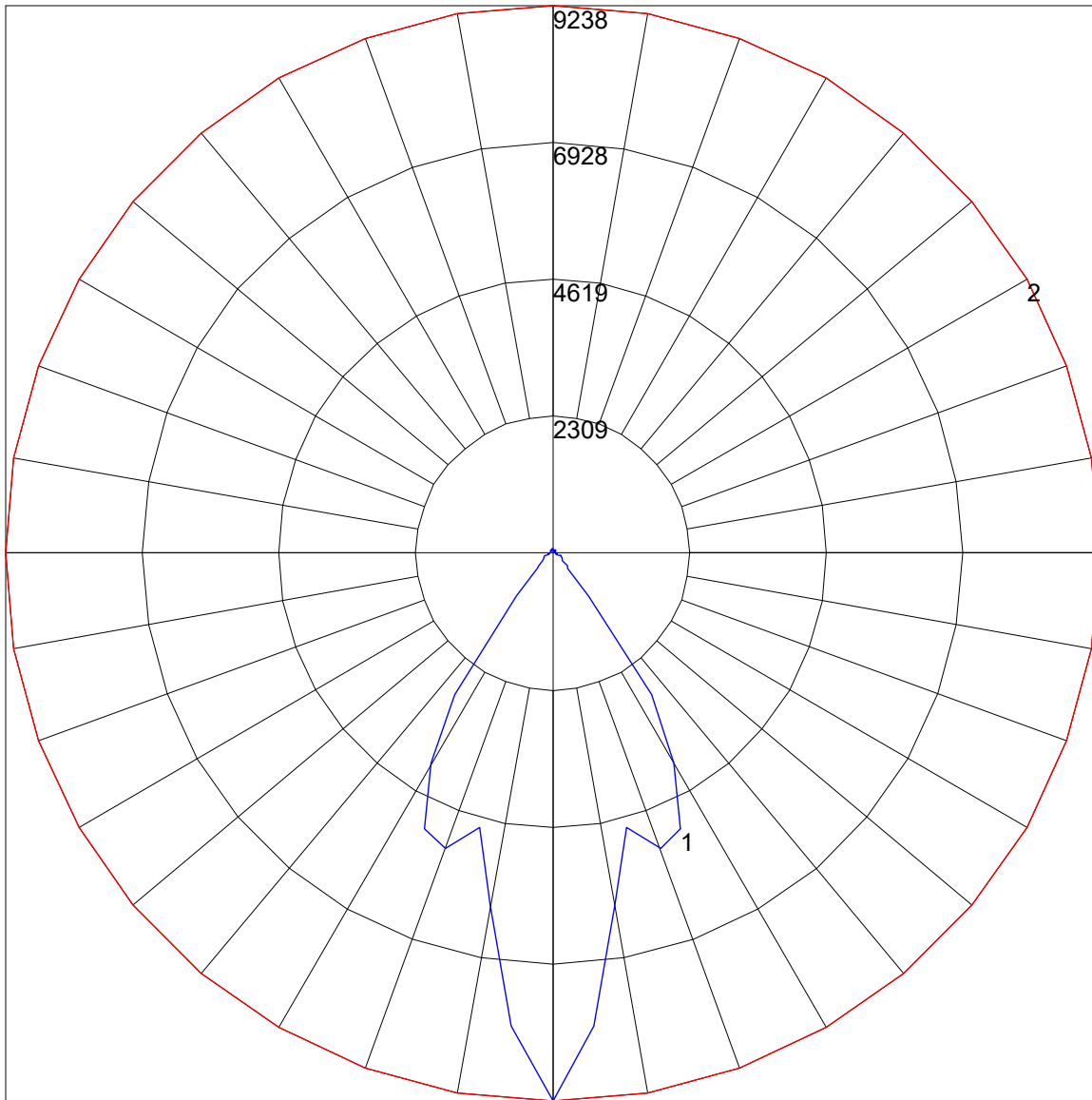
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**UGR TABLE - CORRECTED**

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	7.9	8.9	8.4	9.3	9.8	7.9	8.9	8.4	9.3	9.8
	3H	10.0	10.9	10.4	11.3	11.7	10.0	10.9	10.4	11.3	11.7
	4H	10.6	11.5	11.1	11.9	12.4	10.6	11.5	11.1	11.9	12.4
	6H	11.0	11.8	11.5	12.3	12.8	11.0	11.8	11.5	12.3	12.8
	8H	11.2	11.9	11.7	12.4	12.9	11.2	11.9	11.7	12.4	12.9
	12H	11.5	12.2	12.0	12.6	13.1	11.5	12.2	12.0	12.6	13.1
4H	2H	8.5	9.3	9.0	9.8	10.3	8.5	9.3	9.0	9.8	10.3
	3H	10.7	11.4	11.1	11.8	12.3	10.7	11.4	11.1	11.8	12.3
	4H	11.4	12.1	12.0	12.6	13.1	11.4	12.1	12.0	12.6	13.1
	6H	11.9	12.4	12.5	13.0	13.5	11.9	12.4	12.5	13.0	13.5
	8H	12.2	12.6	12.7	13.2	13.7	12.2	12.6	12.7	13.2	13.7
	12H	12.5	12.9	13.1	13.5	14.0	12.5	12.9	13.1	13.5	14.0
8H	4H	11.6	12.1	12.2	12.6	13.2	11.6	12.1	12.2	12.6	13.2
	6H	12.2	12.6	12.8	13.2	13.7	12.2	12.6	12.8	13.2	13.7
	8H	12.5	12.9	13.1	13.5	14.1	12.5	12.9	13.1	13.5	14.1
	12H	13.0	13.3	13.6	13.9	14.6	13.0	13.3	13.6	13.9	14.6
12H	4H	11.6	12.0	12.2	12.6	13.2	11.6	12.0	12.2	12.6	13.2
	6H	12.2	12.6	12.8	13.1	13.8	12.2	12.6	12.8	13.1	13.8
	8H	12.7	12.9	13.2	13.5	14.2	12.7	12.9	13.2	13.5	14.2

Maximum UGR = 14.6

POLAR GRAPH



Maximum Candela = 9237.64 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.)