

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTLO5KAC12.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] DRCHTLO5KAC12 [120-277V
[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] 7900

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7900
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
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	3451	2978	3451
55	2023	1693	2023
65	1824	1475	1824
75	1314	1019	1314
85	1096	804	1096

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CANDELA TABULATION

	<u>0</u>
0	9952.32
5	8673.58
10	6514.94
15	5201.08
20	5728.97
25	5558.15
30	4435.21
35	3140.09
40	1035.96
45	394.12
50	342.07
55	218.16
60	195.85
65	179.10
70	150.94
75	112.41
80	68.64
85	77.07
90	44.20
95	34.43
100	31.67
105	32.69
110	37.03
115	40.15
120	43.02
125	50.83
130	61.85
135	63.50
140	59.89
145	47.03
150	43.18
155	44.04
160	43.61
165	49.26
170	63.98
175	83.00
180	85.39

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2361.78	N.A.	29.90
0-30	4810.26	N.A.	60.90
0-40	6622.52	N.A.	83.80
0-60	7253.58	N.A.	91.80
0-80	7545.58	N.A.	95.50
0-90	7618.38	N.A.	96.40
10-90	6852.37	N.A.	86.70
20-40	4260.74	N.A.	53.90
20-50	4674.29	N.A.	59.20
40-70	805.78	N.A.	10.20
60-80	292.00	N.A.	3.70
70-80	117.28	N.A.	1.50
80-90	72.80	N.A.	0.90
90-110	74.94	N.A.	0.90
90-120	114.70	N.A.	1.50
90-130	160.89	N.A.	2.00
90-150	240.19	N.A.	3.00
90-180	282.06	N.A.	3.60
110-180	207.13	N.A.	2.60
0-180	7900.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	766.01
10-20	1595.78
20-30	2448.48
30-40	1812.26
40-50	413.55
50-60	217.51
60-70	174.72
70-80	117.28
80-90	72.80
90-100	39.49
100-110	35.44
110-120	39.76
120-130	46.19
130-140	48.18
140-150	31.12
150-160	20.23
160-170	14.37
170-180	7.27

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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	65	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	55	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

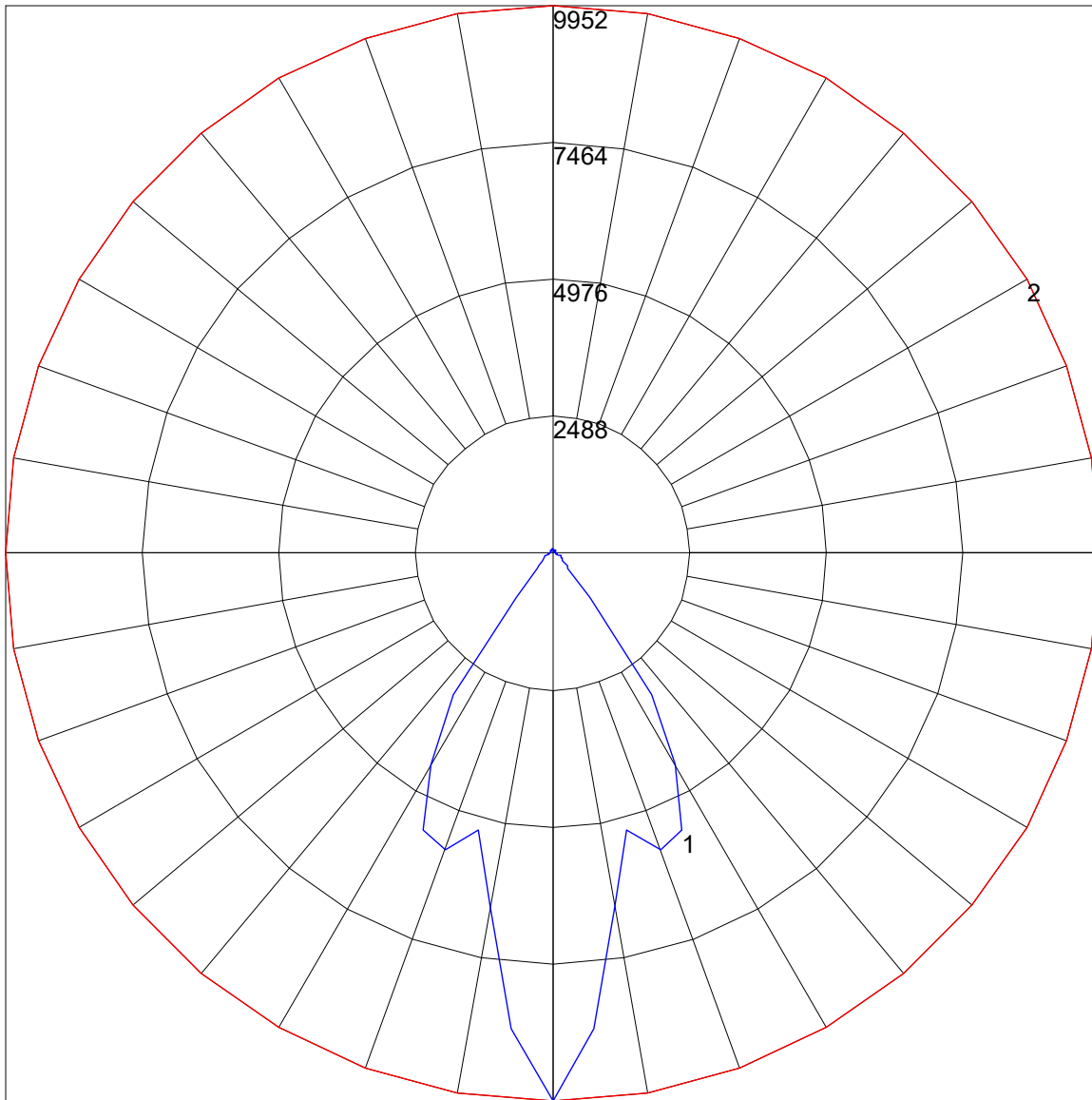
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UGR TABLE - CORRECTED

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	13.4	11.8	12.5	12.3	12.9	13.4
4H	2H	8.8	9.6	9.3	10.1	10.6	8.8	9.6	9.3	10.1	10.6
	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	13.8	12.2	12.8	12.8	13.3	13.8
	8H	12.5	13.0	13.0	13.5	14.0	12.5	13.0	13.0	13.5	14.0
	12H	12.8	13.2	13.4	13.8	14.3	12.8	13.2	13.4	13.8	14.3
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	12.8	13.2	13.4	13.8	14.4	12.8	13.2	13.4	13.8	14.4
	12H	13.3	13.6	13.9	14.2	14.9	13.3	13.6	13.9	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	13.2	13.5	13.8	14.5	13.0	13.2	13.5	13.8	14.5

Maximum UGR = 14.9

POLAR GRAPH



Maximum Candela = 9952.32 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.)