

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTHO5KAC12.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] DRCHTHO5KAC12120-277V
[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] 14220

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14220
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	90
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	6211	5360	6211
55	3648	3053	3648
65	3259	2636	3259
75	2368	1837	2368
85	1993	1462	1993

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CANDELA TABULATION

	<u>0</u>
0	17927.119
5	15586.760
10	11743.740
15	9350.000
20	10326.950
25	10004.040
30	7978.880
35	5655.530
40	1860.550
45	709.290
50	618.020
55	393.380
60	349.970
65	320.030
70	274.200
75	202.640
80	123.910
85	140.190
90	79.810
95	61.220
100	56.510
105	58.850
110	66.370
115	72.580
120	77.040
125	90.910
130	109.940
135	114.330
140	108.070
145	86.300
150	76.900
155	79.350
160	76.840
165	86.850
170	113.380
175	145.370
180	147.980

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4251.27	N.A.	29.90
0-30	8659.37	N.A.	60.90
0-40	11921.13	N.A.	83.80
0-60	13056.9	N.A.	91.80
0-80	13582.25	N.A.	95.50
0-90	13714.25	N.A.	96.40
10-90	12335.91	N.A.	86.80
20-40	7669.86	N.A.	53.90
20-50	8413.89	N.A.	59.20
40-70	1449.11	N.A.	10.20
60-80	525.36	N.A.	3.70
70-80	212.01	N.A.	1.50
80-90	132.00	N.A.	0.90
90-110	134.20	N.A.	0.90
90-120	205.76	N.A.	1.40
90-130	288.25	N.A.	2.00
90-150	431.21	N.A.	3.00
90-180	505.50	N.A.	3.60
110-180	371.29	N.A.	2.60
0-180	14219.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1378.35
10-20	2872.92
20-30	4408.1
30-40	3261.76
40-50	744.03
50-60	391.74
60-70	313.34
70-80	212.01
80-90	132.00
90-100	70.61
100-110	63.60
110-120	71.56
120-130	82.49
130-140	86.50
140-150	56.46
150-160	36.16
160-170	25.37
170-180	12.76

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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	67	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

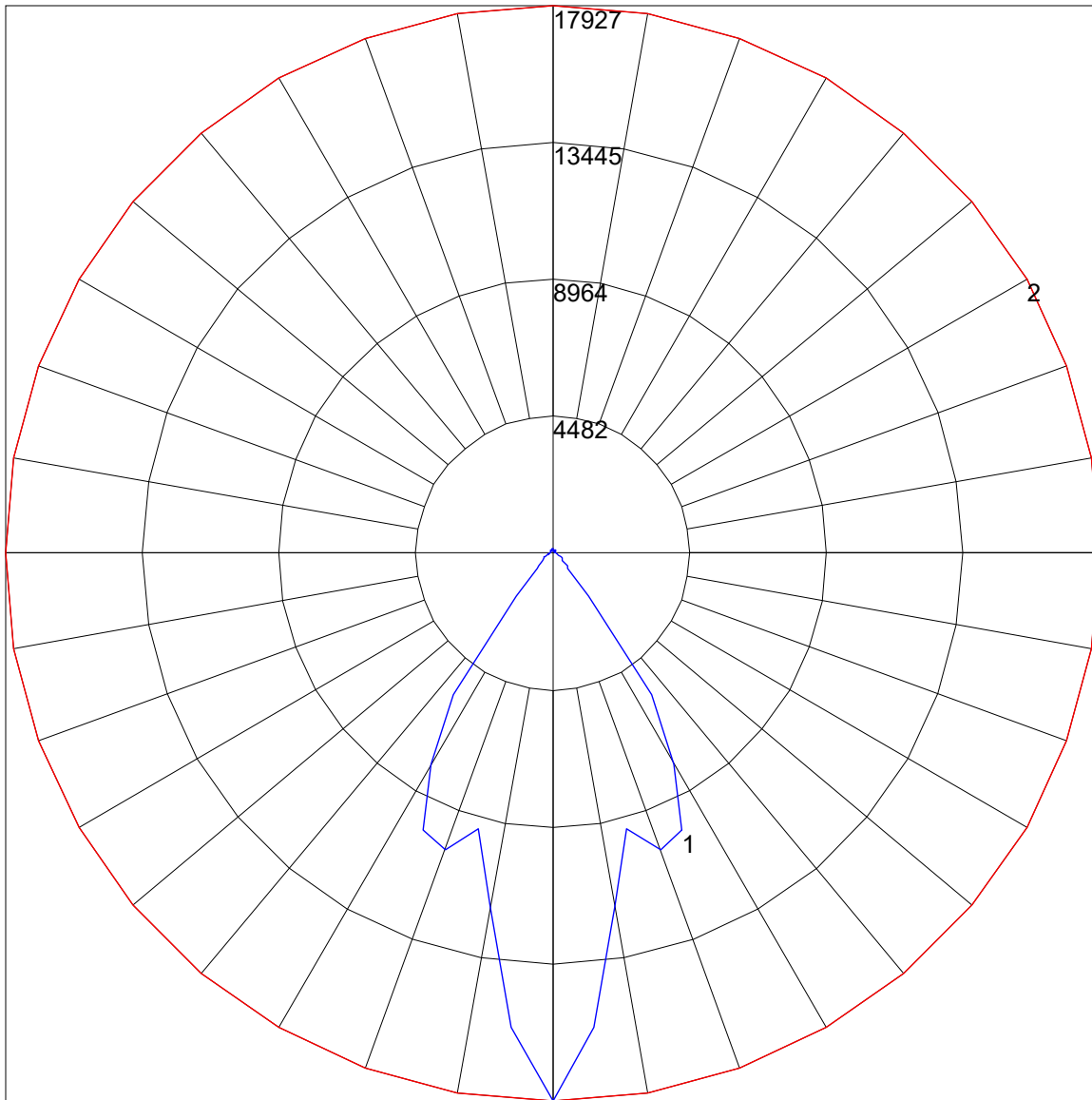
Reflectances

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	10.2	11.2	10.7	11.6	12.0	10.2	11.2	10.7	11.6	12.0
	3H	12.3	13.2	12.7	13.6	14.0	12.3	13.2	12.7	13.6	14.0
	4H	12.9	13.8	13.4	14.2	14.7	12.9	13.8	13.4	14.2	14.7
	6H	13.4	14.1	13.8	14.6	15.1	13.4	14.1	13.8	14.6	15.1
	8H	13.5	14.2	14.0	14.7	15.2	13.5	14.2	14.0	14.7	15.2
	12H	13.8	14.5	14.3	14.9	15.5	13.8	14.5	14.3	14.9	15.5
4H	2H	10.8	11.6	11.2	12.0	12.5	10.8	11.6	11.2	12.0	12.5
	3H	13.0	13.7	13.5	14.1	14.7	13.0	13.7	13.5	14.1	14.7
	4H	13.8	14.4	14.3	14.9	15.4	13.8	14.4	14.3	14.9	15.4
	6H	14.2	14.8	14.8	15.3	15.9	14.2	14.8	14.8	15.3	15.9
	8H	14.5	15.0	15.0	15.5	16.1	14.5	15.0	15.0	15.5	16.1
	12H	14.8	15.2	15.4	15.8	16.4	14.8	15.2	15.4	15.8	16.4
8H	4H	13.9	14.4	14.5	14.9	15.5	13.9	14.4	14.5	14.9	15.5
	6H	14.5	14.9	15.1	15.5	16.1	14.5	14.9	15.1	15.5	16.1
	8H	14.9	15.2	15.4	15.8	16.4	14.9	15.2	15.4	15.8	16.4
	12H	15.4	15.7	16.0	16.2	16.9	15.4	15.7	16.0	16.2	16.9
12H	4H	13.9	14.3	14.5	14.9	15.5	13.9	14.3	14.5	14.9	15.5
	6H	14.5	14.9	15.1	15.4	16.1	14.5	14.9	15.1	15.4	16.1
	8H	15.0	15.3	15.6	15.8	16.5	15.0	15.3	15.6	15.8	16.5

Maximum UGR = 16.9

POLAR GRAPH



Maximum Candela = 17927.119 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.)