

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTHO4KAC12.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] DRCHTHO4KAC12120-277V
[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] 14144

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
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	6170	5324	6169
55	3639	3046	3639
65	3256	2633	3256
75	2369	1837	2369
85	1963	1440	1963

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CANDELA TABULATION

	<u>0</u>
0	17920.99
5	15519.13
10	11703.72
15	9293.18
20	10269.84
25	9940.75
30	7927.69
35	5642.13
40	1845.05
45	704.60
50	613.50
55	392.43
60	349.34
65	319.70
70	269.32
75	202.73
80	122.56
85	138.06
90	78.50
95	61.18
100	56.36
105	58.51
110	66.55
115	72.82
120	76.63
125	89.22
130	109.67
135	114.72
140	106.80
145	84.85
150	76.82
155	78.78
160	76.13
165	86.80
170	112.42
175	146.76
180	160.37

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4231.4	N.A.	29.90
0-30	8612.39	N.A.	60.90
0-40	11859.82	N.A.	83.90
0-60	12988.43	N.A.	91.80
0-80	13510.64	N.A.	95.50
0-90	13640.75	N.A.	96.40
10-90	12267.14	N.A.	86.70
20-40	7628.41	N.A.	53.90
20-50	8366.84	N.A.	59.20
40-70	1440.4	N.A.	10.20
60-80	522.21	N.A.	3.70
70-80	210.42	N.A.	1.50
80-90	130.11	N.A.	0.90
90-110	133.61	N.A.	0.90
90-120	205.23	N.A.	1.50
90-130	286.81	N.A.	2.00
90-150	428.95	N.A.	3.00
90-180	503.08	N.A.	3.60
110-180	369.47	N.A.	2.60
0-180	14143.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1373.61
10-20	2857.79
20-30	4380.98
30-40	3247.43
40-50	738.43
50-60	390.18
60-70	311.79
70-80	210.42
80-90	130.11
90-100	70.18
100-110	63.42
110-120	71.62
120-130	81.58
130-140	86.36
140-150	55.78
150-160	35.94
160-170	25.25
170-180	12.94

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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

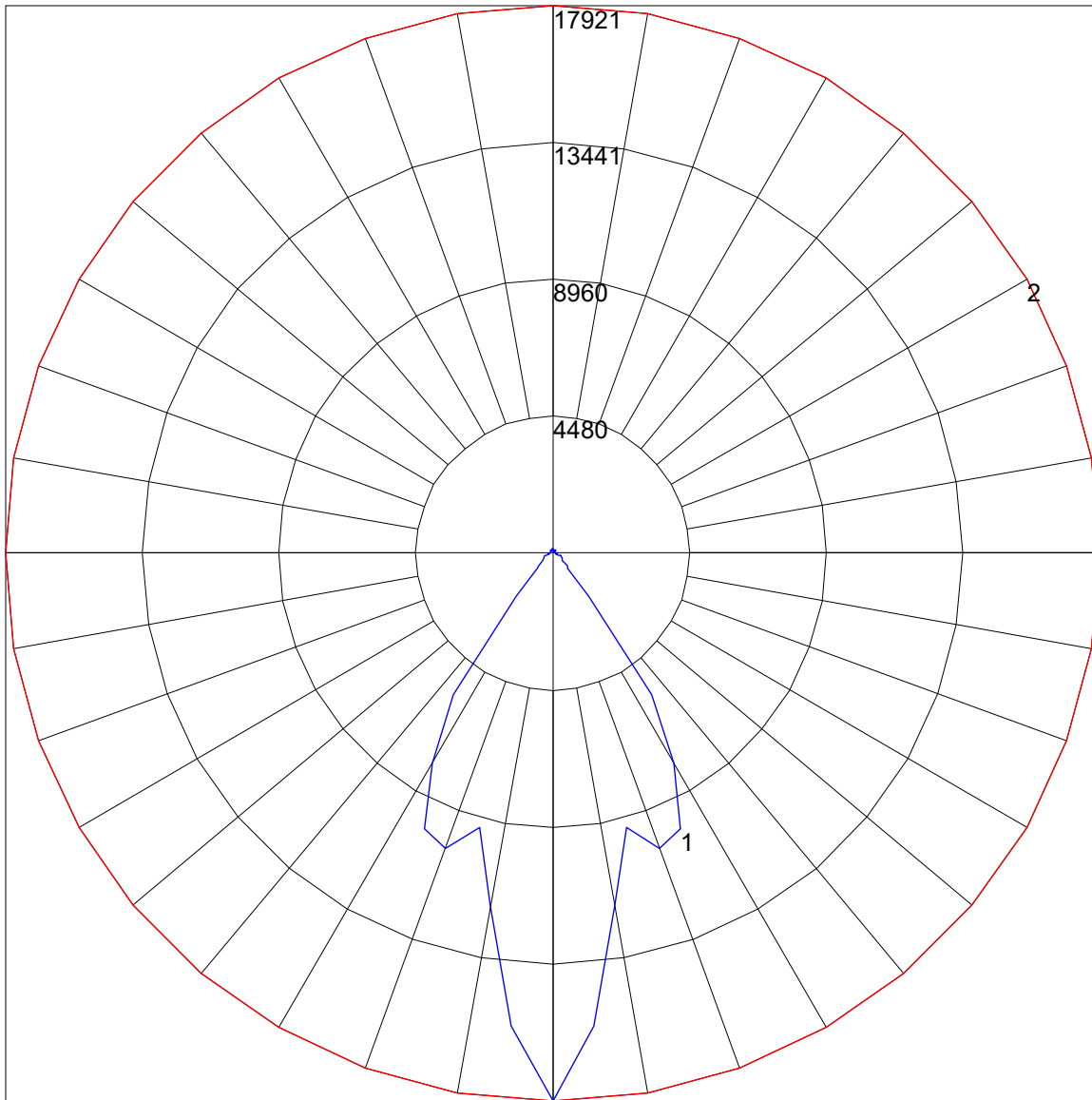
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UGR TABLE - CORRECTED

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	10.2	11.3	10.7	11.7	12.1	10.2	11.3	10.7	11.7	12.1
	3H	12.3	13.1	12.7	13.6	14.0	12.3	13.1	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	13.3	14.1	13.8	14.6	15.1	13.3	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	15.4	13.8	14.5	14.3	14.9	15.4
4H	2H	10.8	11.6	11.3	12.1	12.6	10.8	11.6	11.3	12.1	12.6
	3H	13.0	13.6	13.4	14.1	14.6	13.0	13.6	13.4	14.1	14.6
	4H	13.7	14.4	14.3	14.9	15.4	13.7	14.4	14.3	14.9	15.4
	6H	14.2	14.8	14.8	15.3	15.8	14.2	14.8	14.8	15.3	15.8
	8H	14.5	15.0	15.0	15.5	16.0	14.5	15.0	15.0	15.5	16.0
	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	14.8	15.2	15.4	15.8	16.4	14.8	15.2	15.4	15.8	16.4
	12H	15.4	15.6	15.9	16.2	16.9	15.4	15.6	15.9	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	15.5	15.8	16.5	15.0	15.3	15.5	15.8	16.5

Maximum UGR = 16.9

POLAR GRAPH



Maximum Candela = 17920.99 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.)