

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO4KAC12.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] DRCHTMO4KAC12120-277V
[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] 11001

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	70
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO4KAC12.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4794	4137	4794
55	2823	2363	2823
65	2518	2036	2518
75	1833	1421	1832
85	1532	1124	1532

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO4KAC12.IES

CANDELA TABULATION

	<u>0</u>
0	13985.80
5	12059.85
10	9087.96
15	7231.22
20	7984.84
25	7736.16
30	6172.47
35	4382.11
40	1437.10
45	547.46
50	476.10
55	304.43
60	272.80
65	247.27
70	210.58
75	156.80
80	95.86
85	107.78
90	61.17
95	47.69
100	44.18
105	45.25
110	51.65
115	56.66
120	59.93
125	68.97
130	85.67
135	89.08
140	82.79
145	66.05
150	60.57
155	60.80
160	60.21
165	67.45
170	86.68
175	113.56
180	116.82

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO4KAC12.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3289.95	N.A.	29.90
0-30	6698.94	N.A.	60.90
0-40	9224.07	N.A.	83.90
0-60	10101.49	N.A.	91.80
0-80	10507.48	N.A.	95.50
0-90	10609.08	N.A.	96.40
10-90	9541.19	N.A.	86.70
20-40	5934.12	N.A.	53.90
20-50	6508.4	N.A.	59.20
40-70	1119.78	N.A.	10.20
60-80	405.99	N.A.	3.70
70-80	163.63	N.A.	1.50
80-90	101.59	N.A.	0.90
90-110	104.03	N.A.	0.90
90-120	159.80	N.A.	1.50
90-130	223.21	N.A.	2.00
90-150	333.83	N.A.	3.00
90-180	391.46	N.A.	3.60
110-180	287.43	N.A.	2.60
0-180	11000.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1067.89
10-20	2222.06
20-30	3408.99
30-40	2525.13
40-50	574.28
50-60	303.14
60-70	242.36
70-80	163.63
80-90	101.59
90-100	54.77
100-110	49.26
110-120	55.77
120-130	63.42
130-140	67.13
140-150	43.48
150-160	28.05
160-170	19.66
170-180	9.92

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO4KAC12.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO4KAC12.IES

UGR TABLE - CORRECTED

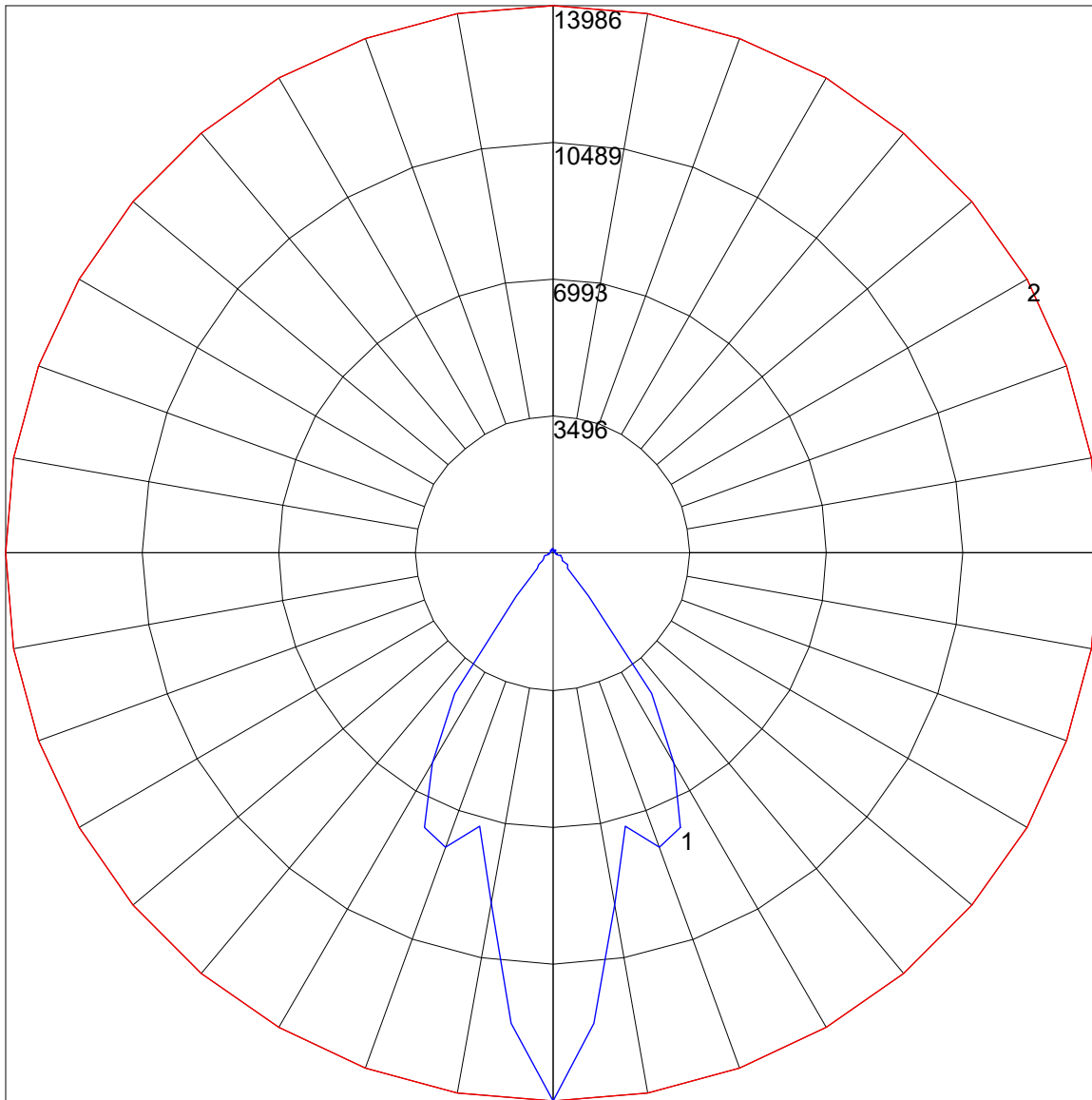
Reflectances

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	9.3	10.4	9.8	10.8	11.2	9.3	10.4	9.8	10.8	11.2
	3H	11.4	12.3	11.8	12.7	13.1	11.4	12.3	11.8	12.7	13.1
	4H	12.0	12.9	12.5	13.3	13.8	12.0	12.9	12.5	13.3	13.8
	6H	12.4	13.2	12.9	13.7	14.2	12.4	13.2	12.9	13.7	14.2
	8H	12.6	13.3	13.1	13.8	14.3	12.6	13.3	13.1	13.8	14.3
	12H	12.9	13.6	13.4	14.0	14.6	12.9	13.6	13.4	14.0	14.6
4H	2H	9.9	10.7	10.4	11.2	11.7	9.9	10.7	10.4	11.2	11.7
	3H	12.1	12.8	12.6	13.2	13.7	12.1	12.8	12.6	13.2	13.7
	4H	12.8	13.5	13.4	14.0	14.5	12.8	13.5	13.4	14.0	14.5
	6H	13.3	13.9	13.9	14.4	14.9	13.3	13.9	13.9	14.4	14.9
	8H	13.6	14.1	14.1	14.6	15.1	13.6	14.1	14.1	14.6	15.1
	12H	13.9	14.3	14.5	14.9	15.5	13.9	14.3	14.5	14.9	15.5
8H	4H	13.0	13.5	13.6	14.0	14.6	13.0	13.5	13.6	14.0	14.6
	6H	13.6	14.0	14.2	14.6	15.2	13.6	14.0	14.2	14.6	15.2
	8H	13.9	14.3	14.5	14.9	15.5	13.9	14.3	14.5	14.9	15.5
	12H	14.5	14.8	15.0	15.3	16.0	14.5	14.8	15.0	15.3	16.0
12H	4H	13.0	13.4	13.6	14.0	14.6	13.0	13.4	13.6	14.0	14.6
	6H	13.6	14.0	14.2	14.5	15.2	13.6	14.0	14.2	14.5	15.2
	8H	14.1	14.4	14.7	14.9	15.6	14.1	14.4	14.7	14.9	15.6

Maximum UGR = 16.0

POLAR GRAPH



Maximum Candela = 13985.8 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.)