

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO5KAC12.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] DRCHTMO5KAC12120-277V
[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] 11059

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4818	4158	4818
55	2829	2368	2828
65	2523	2040	2522
75	1841	1427	1840
85	1542	1131	1541

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CANDELA TABULATION

	<u>0</u>
0	13929.16
5	12158.29
10	9147.70
15	7259.38
20	8023.51
25	7781.68
30	6203.16
35	4408.67
40	1446.07
45	550.26
50	477.55
55	305.03
60	273.35
65	247.69
70	212.08
75	157.49
80	96.12
85	108.43
90	62.57
95	48.20
100	44.04
105	45.47
110	52.01
115	56.16
120	59.96
125	70.24
130	86.32
135	89.47
140	84.36
145	65.67
150	61.43
155	61.41
160	61.49
165	69.19
170	86.56
175	113.94
180	119.79

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3306.83	N.A.	29.90
0-30	6734.3	N.A.	60.90
0-40	9273.78	N.A.	83.90
0-60	10154.95	N.A.	91.80
0-80	10562.5	N.A.	95.50
0-90	10664.9	N.A.	96.40
10-90	9590.85	N.A.	86.70
20-40	5966.95	N.A.	54.00
20-50	6544.27	N.A.	59.20
40-70	1124.25	N.A.	10.20
60-80	407.54	N.A.	3.70
70-80	164.46	N.A.	1.50
80-90	102.40	N.A.	0.90
90-110	104.82	N.A.	0.90
90-120	160.44	N.A.	1.50
90-130	224.58	N.A.	2.00
90-150	336.03	N.A.	3.00
90-180	394.44	N.A.	3.60
110-180	289.62	N.A.	2.60
0-180	11059.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1074.05
10-20	2232.78
20-30	3427.47
30-40	2539.49
40-50	577.32
50-60	303.85
60-70	243.08
70-80	164.46
80-90	102.40
90-100	55.39
100-110	49.43
110-120	55.62
120-130	64.14
130-140	67.71
140-150	43.75
150-160	28.44
160-170	20.01
170-180	9.97

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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	62	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

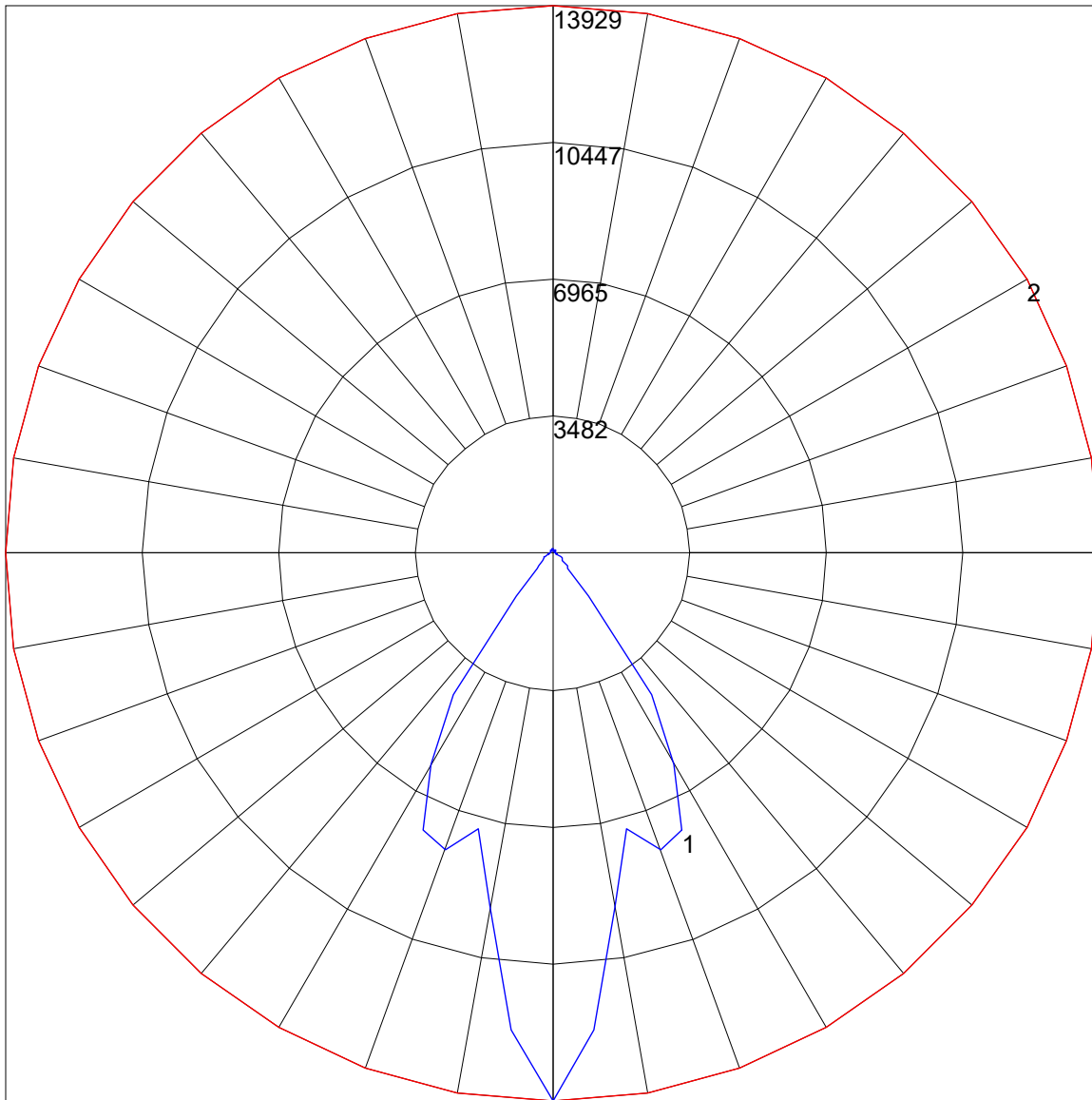
Reflectances

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	9.3	10.3	9.8	10.7	11.2	9.3	10.3	9.8	10.7	11.2
	3H	11.4	12.2	11.8	12.7	13.1	11.4	12.2	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	14.1	12.4	13.2	12.9	13.7	14.1
	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	14.5	12.9	13.6	13.4	14.0	14.5
4H	2H	9.9	10.7	10.3	11.1	11.6	9.9	10.7	10.3	11.1	11.6
	3H	12.1	12.7	12.5	13.2	13.7	12.1	12.7	12.5	13.2	13.7
	4H	12.8	13.5	13.3	13.9	14.5	12.8	13.5	13.3	13.9	14.5
	6H	13.3	13.8	13.9	14.4	14.9	13.3	13.8	13.9	14.4	14.9
	8H	13.6	14.0	14.1	14.6	15.1	13.6	14.0	14.1	14.6	15.1
	12H	13.9	14.3	14.5	14.9	15.4	13.9	14.3	14.5	14.9	15.4
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	15.1	13.6	14.0	14.2	14.6	15.1
	8H	13.9	14.3	14.5	14.9	15.5	13.9	14.3	14.5	14.9	15.5
	12H	14.5	14.7	15.0	15.3	16.0	14.5	14.7	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	14.3	14.6	14.9	15.6	14.1	14.3	14.6	14.9	15.6

Maximum UGR = 16.0

POLAR GRAPH



Maximum Candela = 13929.16 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.)