

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTHO3KAC12.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] DRCHTHO3KAC12 [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] 13143

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13143
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	5719	4935	5719
55	3362	2814	3362
65	3018	2441	3018
75	2177	1689	2177
85	1835	1346	1835

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CANDELA TABULATION

	<u>0</u>
0	16687.381
5	14405.590
10	10859.190
15	8644.900
20	9549.410
25	9241.810
30	7374.120
35	5230.600
40	1718.510
45	653.100
50	570.930
55	362.550
60	323.420
65	296.350
70	252.050
75	186.310
80	114.220
85	129.070
90	73.850
95	56.740
100	52.510
105	53.990
110	60.920
115	67.060
120	71.140
125	83.820
130	103.140
135	106.070
140	99.850
145	78.430
150	73.140
155	73.620
160	72.150
165	80.220
170	101.800
175	128.480
180	137.330

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3931.94	N.A.	29.90
0-30	8005.56	N.A.	60.90
0-40	11021.1	N.A.	83.90
0-60	12069.08	N.A.	91.80
0-80	12553.6	N.A.	95.50
0-90	12675.27	N.A.	96.40
10-90	11399.76	N.A.	86.70
20-40	7089.15	N.A.	53.90
20-50	7775.61	N.A.	59.20
40-70	1337.51	N.A.	10.20
60-80	484.52	N.A.	3.70
70-80	194.99	N.A.	1.50
80-90	121.67	N.A.	0.90
90-110	123.97	N.A.	0.90
90-120	189.98	N.A.	1.40
90-130	266.45	N.A.	2.00
90-150	398.91	N.A.	3.00
90-180	467.54	N.A.	3.60
110-180	343.57	N.A.	2.60
0-180	13142.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1275.51
10-20	2656.44
20-30	4073.61
30-40	3015.54
40-50	686.46
50-60	361.53
60-70	289.53
70-80	194.99
80-90	121.67
90-100	65.44
100-110	58.53
110-120	66.00
120-130	76.47
130-140	80.40
140-150	52.06
150-160	33.86
160-170	23.35
170-180	11.42

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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

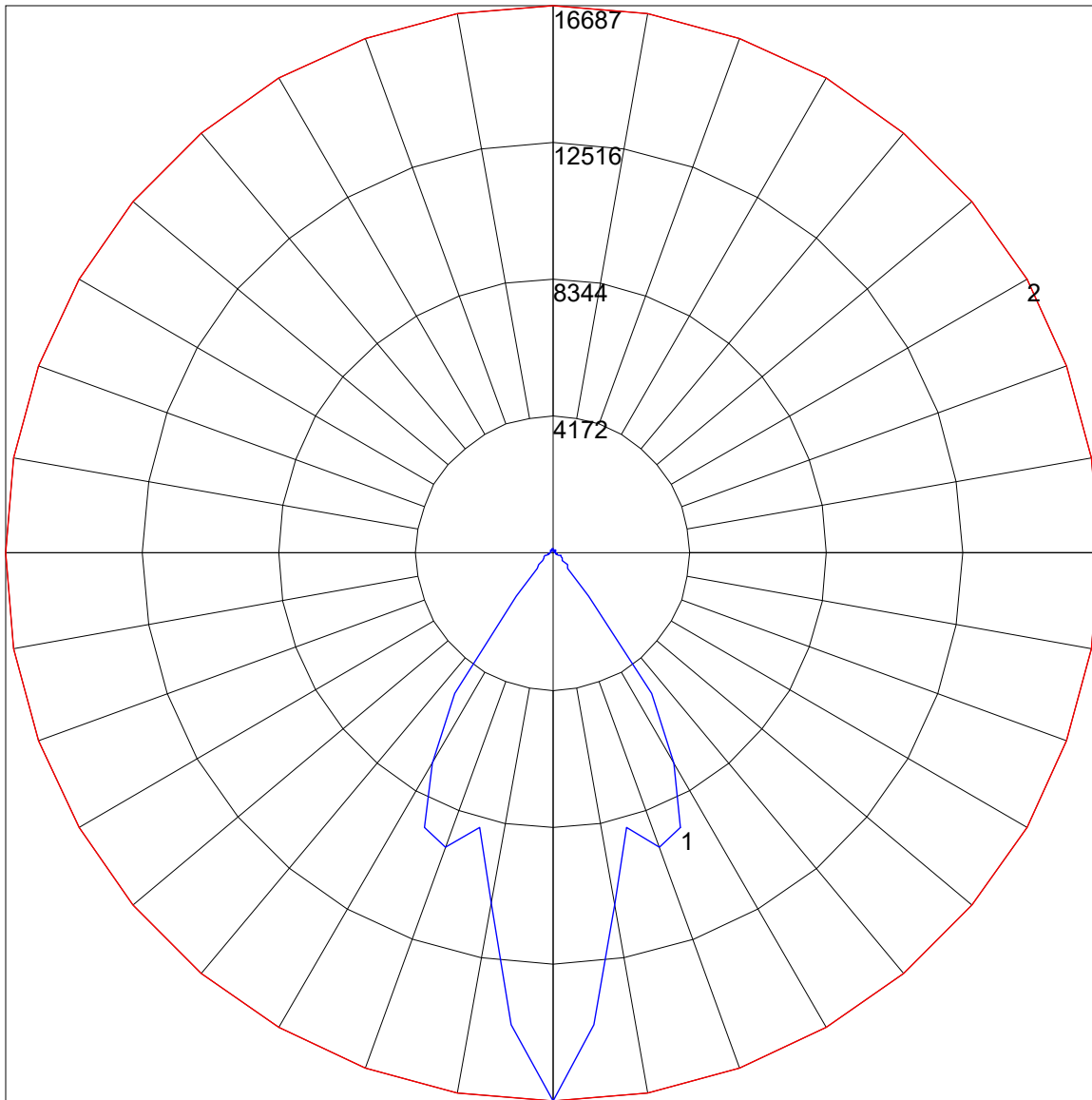
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UGR TABLE - CORRECTED

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	9.9	10.9	10.3	11.3	11.7	9.9	10.9	10.3	11.3	11.7
	3H	12.0	12.8	12.4	13.3	13.7	12.0	12.8	12.4	13.3	13.7
	4H	12.6	13.5	13.1	13.9	14.4	12.6	13.5	13.1	13.9	14.4
	6H	13.0	13.8	13.5	14.2	14.7	13.0	13.8	13.5	14.2	14.7
	8H	13.2	13.9	13.7	14.4	14.9	13.2	13.9	13.7	14.4	14.9
	12H	13.4	14.1	14.0	14.6	15.1	13.4	14.1	14.0	14.6	15.1
4H	2H	10.5	11.3	10.9	11.7	12.2	10.5	11.3	10.9	11.7	12.2
	3H	12.7	13.3	13.1	13.8	14.3	12.7	13.3	13.1	13.8	14.3
	4H	13.4	14.0	13.9	14.5	15.1	13.4	14.0	13.9	14.5	15.1
	6H	13.9	14.4	14.5	15.0	15.5	13.9	14.4	14.5	15.0	15.5
	8H	14.2	14.6	14.7	15.2	15.7	14.2	14.6	14.7	15.2	15.7
	12H	14.5	14.9	15.0	15.5	16.0	14.5	14.9	15.1	15.5	16.0
8H	4H	13.6	14.1	14.2	14.6	15.2	13.6	14.1	14.2	14.6	15.2
	6H	14.2	14.6	14.8	15.2	15.7	14.2	14.6	14.8	15.2	15.7
	8H	14.5	14.9	15.1	15.5	16.1	14.5	14.9	15.1	15.5	16.1
	12H	15.0	15.3	15.6	15.9	16.6	15.0	15.3	15.6	15.9	16.6
12H	4H	13.6	14.0	14.2	14.6	15.2	13.6	14.0	14.2	14.6	15.2
	6H	14.2	14.6	14.8	15.1	15.8	14.2	14.6	14.8	15.1	15.8
	8H	14.6	14.9	15.2	15.5	16.2	14.6	14.9	15.2	15.5	16.2

Maximum UGR = 16.6

POLAR GRAPH



Maximum Candela = 16687.381 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.)