

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTMO3KAC16.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] DRCHTMO3KAC16 [120-277V] [347-480] [1AC50; 1AC72; 1CH48; DRCPKXY; DRCSPKXY; SPCY1] [CCR] [RLY; NOD

[LUMINAIRE] 9109-2

[_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] 9300

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9300
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.35 ft
Luminous Width (90-270)	1.35 ft
Luminous Height	0.93 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5083	4349	5083
55	3089	2563	3089
65	1378	1105	1378
75	996	767	996
85	158	116	158

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CANDELA TABULATION

	<u>0</u>
0	15048.41
5	12163.08
10	9847.40
15	6920.47
20	5468.53
25	4626.53
30	4223.66
35	3463.34
40	1223.20
45	1030.35
50	885.24
55	596.63
60	554.93
65	244.85
70	143.86
75	156.10
80	63.53
85	20.72
90	19.70
95	16.75
100	24.19
105	23.90
110	30.75
115	39.31
120	32.32
125	33.90
130	40.79
135	37.84
140	46.43
145	36.99
150	41.80
155	46.29
160	60.26
165	73.22
170	80.54
175	80.86
180	72.35

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3128.38	N.A.	33.60
0-30	5307.16	N.A.	57.10
0-40	7221.04	N.A.	77.60
0-60	8613.76	N.A.	92.60
0-80	9043.79	N.A.	97.20
0-90	9077.75	N.A.	97.60
10-90	7965.06	N.A.	85.60
20-40	4092.66	N.A.	44.00
20-50	4897.00	N.A.	52.70
40-70	1685.58	N.A.	18.10
60-80	430.02	N.A.	4.60
70-80	137.17	N.A.	1.50
80-90	33.96	N.A.	0.40
90-110	48.26	N.A.	0.50
90-120	83.41	N.A.	0.90
90-130	114.96	N.A.	1.20
90-150	171.97	N.A.	1.80
90-180	222.02	N.A.	2.40
110-180	173.76	N.A.	1.90
0-180	9299.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1112.69
10-20	2015.69
20-30	2178.78
30-40	1913.88
40-50	804.34
50-60	588.39
60-70	292.85
70-80	137.17
80-90	33.96
90-100	21.10
100-110	27.15
110-120	35.15
120-130	31.55
130-140	31.49
140-150	25.52
150-160	22.32
160-170	20.12
170-180	7.61

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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	110	110	110	105	105	105	100	100	100	98
1	112	109	106	103	109	106	104	101	102	100	98	97	96	94	94	92	91	89
2	105	99	95	91	103	98	93	90	94	90	87	90	88	85	87	85	83	81
3	99	92	86	81	97	90	85	80	87	82	79	84	80	77	81	78	76	74
4	93	85	78	73	91	83	77	73	81	76	72	78	74	71	76	72	69	68
5	88	78	72	67	86	77	71	67	75	70	66	73	69	65	71	67	64	62
6	83	73	66	62	81	72	66	61	70	65	61	69	64	60	67	63	59	58
7	79	68	62	57	77	67	61	57	66	60	56	64	59	56	63	59	55	54
8	74	64	58	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50
9	71	60	54	50	69	60	54	49	59	53	49	57	52	49	56	52	48	47
10	67	57	51	47	66	56	50	46	55	50	46	54	49	46	53	49	46	44

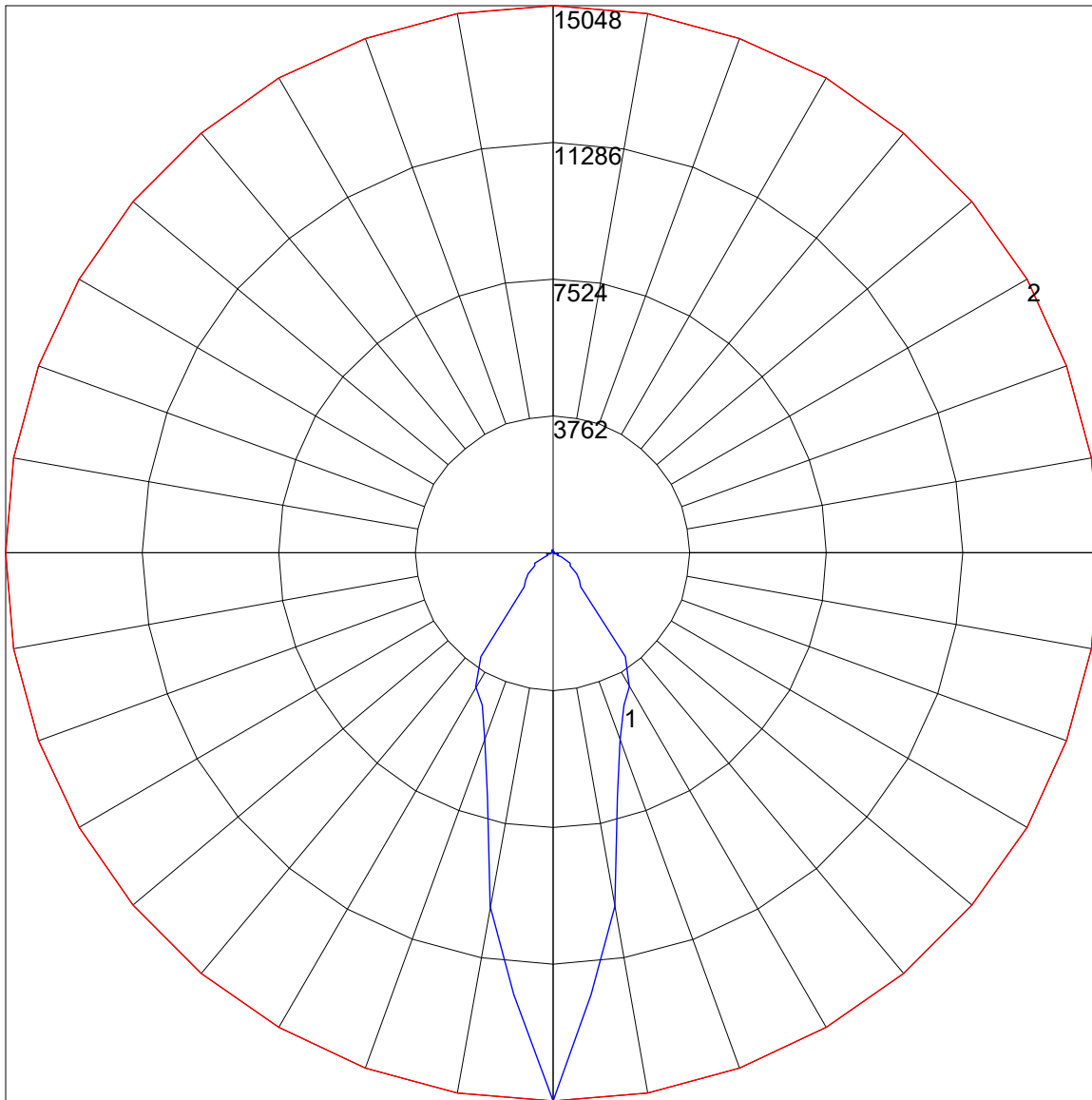
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UGR TABLE - CORRECTED

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	12.6	13.8	13.0	14.1	14.5	12.6	13.8	13.0	14.1	14.5
	3H	12.9	13.9	13.3	14.3	14.7	12.9	13.9	13.3	14.3	14.7
	4H	13.1	14.0	13.5	14.4	14.9	13.1	14.0	13.5	14.4	14.9
	6H	13.2	14.0	13.6	14.4	14.9	13.2	14.0	13.6	14.4	14.9
	8H	13.1	14.0	13.6	14.4	14.9	13.1	14.0	13.6	14.4	14.9
	12H	13.1	13.9	13.6	14.3	14.8	13.1	13.9	13.6	14.3	14.8
4H	2H	12.6	13.6	13.1	14.0	14.4	12.6	13.6	13.1	14.0	14.4
	3H	13.0	13.7	13.4	14.2	14.6	13.0	13.7	13.4	14.2	14.6
	4H	13.3	14.0	13.8	14.5	14.9	13.3	14.0	13.8	14.5	14.9
	6H	13.4	14.0	13.9	14.5	15.0	13.4	14.0	13.9	14.5	15.0
	8H	13.4	14.0	13.9	14.4	15.0	13.4	14.0	13.9	14.4	15.0
	12H	13.4	13.9	13.9	14.4	14.9	13.4	13.9	13.9	14.4	14.9
8H	4H	13.3	13.9	13.8	14.3	14.9	13.3	13.9	13.8	14.3	14.9
	6H	13.4	13.9	14.0	14.4	15.0	13.4	13.9	14.0	14.4	15.0
	8H	13.4	13.8	14.0	14.4	14.9	13.4	13.8	14.0	14.4	14.9
	12H	13.4	13.8	14.0	14.3	14.9	13.4	13.8	14.0	14.3	14.9
12H	4H	13.2	13.7	13.8	14.3	14.8	13.2	13.7	13.8	14.3	14.8
	6H	13.4	13.8	14.0	14.3	14.9	13.4	13.8	14.0	14.3	14.9
	8H	13.4	13.8	14.0	14.3	14.9	13.4	13.8	14.0	14.3	14.9

Maximum UGR = 15.0

POLAR GRAPH



Maximum Candela = 15048.41 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.)