

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTHO5KAC16.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Report # 72194917-02
[TESTLAB] TUV SUD America
[ISSUE DATE] 11/27/2023 3:40:32 PM
[MANUFAC] BEGHELLI
[LUMCAT] DRCHTHO5KAC16 [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] 12942

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12942
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	90
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	7086	6063	7086
55	4302	3570	4302
65	1919	1539	1919
75	1381	1064	1381
85	218	159	218

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CANDELA TABULATION

	<u>0</u>
0	20946.94
5	16908.24
10	13690.90
15	9619.32
20	7600.53
25	6438.73
30	5880.17
35	4828.59
40	1706.18
45	1436.46
50	1231.39
55	830.86
60	772.38
65	340.97
70	200.78
75	216.45
80	87.91
85	28.55
90	28.06
95	23.18
100	33.38
105	32.26
110	42.54
115	54.94
120	44.55
125	47.72
130	57.17
135	52.75
140	64.83
145	51.25
150	58.44
155	64.83
160	82.62
165	101.85
170	114.37
175	109.13
180	109.55

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4349.08	N.A.	33.60
0-30	7380.51	N.A.	57.00
0-40	10047.72	N.A.	77.60
0-60	11987.67	N.A.	92.60
0-80	12586.00	N.A.	97.30
0-90	12633.14	N.A.	97.60
10-90	11085.97	N.A.	85.70
20-40	5698.64	N.A.	44.00
20-50	6819.61	N.A.	52.70
40-70	2347.78	N.A.	18.10
60-80	598.33	N.A.	4.60
70-80	190.50	N.A.	1.50
80-90	47.15	N.A.	0.40
90-110	66.51	N.A.	0.50
90-120	115.38	N.A.	0.90
90-130	159.52	N.A.	1.20
90-150	239.02	N.A.	1.80
90-180	308.72	N.A.	2.40
110-180	242.21	N.A.	1.90
0-180	12941.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1547.18
10-20	2801.9
20-30	3031.43
30-40	2667.22
40-50	1120.96
50-60	818.99
60-70	407.83
70-80	190.50
80-90	47.15
90-100	29.40
100-110	37.11
110-120	48.87
120-130	44.13
130-140	43.98
140-150	35.52
150-160	31.06
160-170	28.03
170-180	10.61

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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

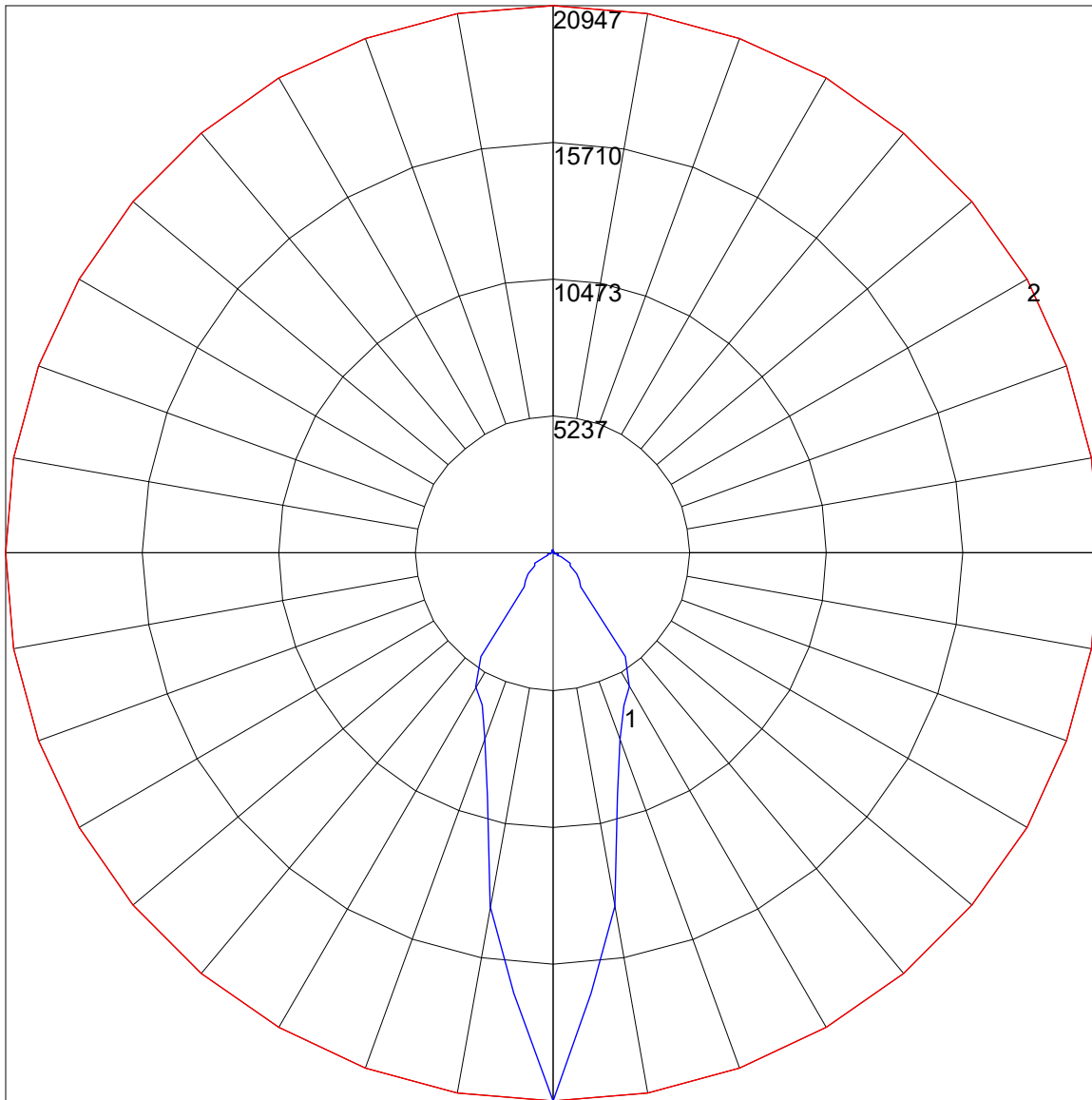
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UGR TABLE - CORRECTED

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	13.8	15.0	14.2	15.3	15.7	13.8	15.0	14.2	15.3	15.7
	3H	14.1	15.1	14.5	15.5	15.9	14.1	15.1	14.5	15.5	15.9
	4H	14.3	15.2	14.8	15.6	16.1	14.3	15.2	14.8	15.6	16.1
	6H	14.4	15.2	14.8	15.6	16.1	14.4	15.2	14.8	15.6	16.1
	8H	14.3	15.2	14.8	15.6	16.1	14.3	15.2	14.8	15.6	16.1
	12H	14.3	15.1	14.8	15.5	16.0	14.3	15.1	14.8	15.5	16.0
4H	2H	13.8	14.8	14.3	15.2	15.6	13.8	14.8	14.3	15.2	15.6
	3H	14.2	15.0	14.6	15.4	15.9	14.2	15.0	14.6	15.4	15.9
	4H	14.5	15.2	15.0	15.7	16.1	14.5	15.2	15.0	15.7	16.1
	6H	14.6	15.2	15.1	15.7	16.2	14.6	15.2	15.1	15.7	16.2
	8H	14.6	15.2	15.1	15.6	16.2	14.6	15.2	15.1	15.6	16.2
	12H	14.6	15.1	15.1	15.6	16.1	14.6	15.1	15.1	15.6	16.1
8H	4H	14.5	15.1	15.0	15.5	16.1	14.5	15.1	15.0	15.5	16.1
	6H	14.6	15.1	15.2	15.6	16.2	14.6	15.1	15.2	15.6	16.2
	8H	14.6	15.0	15.2	15.6	16.1	14.6	15.0	15.2	15.6	16.1
	12H	14.6	15.0	15.2	15.5	16.1	14.6	15.0	15.2	15.5	16.1
12H	4H	14.4	14.9	15.0	15.5	16.0	14.4	14.9	15.0	15.5	16.0
	6H	14.6	15.0	15.2	15.5	16.1	14.6	15.0	15.2	15.5	16.1
	8H	14.6	15.0	15.2	15.5	16.1	14.6	15.0	15.2	15.5	16.1

Maximum UGR = 16.2

POLAR GRAPH



Maximum Candela = 20946.94 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.)