

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTLO3KAC16.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] DRCHTLO3KAC16 [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] 6644

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	50
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	3637	3112	3637
55	2204	1828	2204
65	986	791	986
75	707	544	707
85	112	82	112

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CANDELA TABULATION

	<u>0</u>
0	10739.74
5	8694.89
10	7035.99
15	4940.59
20	3904.53
25	3304.71
30	3021.52
35	2475.93
40	874.96
45	737.27
50	630.98
55	425.54
60	396.64
65	175.10
70	102.81
75	110.78
80	45.11
85	14.71
90	14.12
95	11.83
100	17.34
105	16.78
110	22.11
115	27.95
120	22.59
125	24.24
130	29.09
135	26.74
140	33.23
145	25.85
150	29.44
155	33.60
160	42.42
165	53.30
170	57.88
175	57.16
180	55.22

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2234.48	N.A.	33.60
0-30	3791.19	N.A.	57.10
0-40	5159.8	N.A.	77.70
0-60	6154.56	N.A.	92.60
0-80	6461.46	N.A.	97.30
0-90	6485.61	N.A.	97.60
10-90	5690.53	N.A.	85.70
20-40	2925.31	N.A.	44.00
20-50	3500.31	N.A.	52.70
40-70	1204.12	N.A.	18.10
60-80	306.90	N.A.	4.60
70-80	97.54	N.A.	1.50
80-90	24.15	N.A.	0.40
90-110	34.33	N.A.	0.50
90-120	59.29	N.A.	0.90
90-130	81.71	N.A.	1.20
90-150	122.09	N.A.	1.80
90-180	157.99	N.A.	2.40
110-180	123.66	N.A.	1.90
0-180	6643.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	795.08
10-20	1439.4
20-30	1556.71
30-40	1368.61
40-50	574.99
50-60	419.77
60-70	209.36
70-80	97.54
80-90	24.15
90-100	15.03
100-110	19.29
110-120	24.96
120-130	22.42
130-140	22.39
140-150	18.00
150-160	15.95
160-170	14.48
170-180	5.46

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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	70	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

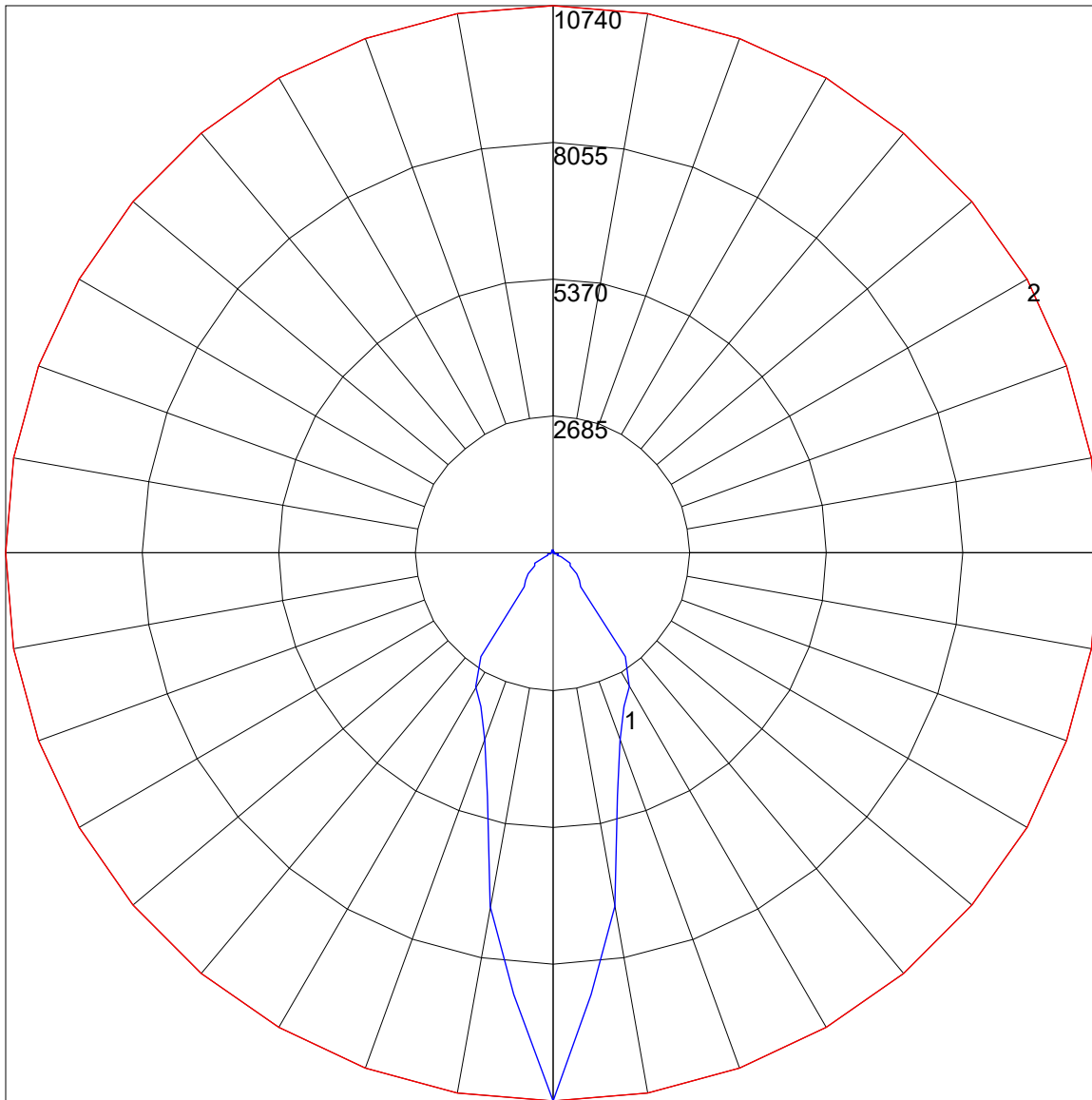
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UGR TABLE - CORRECTED

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	11.5	12.7	11.9	13.0	13.4	11.5	12.7	11.9	13.0	13.4
	3H	11.8	12.8	12.2	13.2	13.6	11.8	12.8	12.2	13.2	13.6
	4H	12.0	12.9	12.4	13.3	13.8	12.0	12.9	12.4	13.3	13.8
	6H	12.0	12.9	12.5	13.3	13.8	12.0	12.9	12.5	13.3	13.8
	8H	12.0	12.9	12.5	13.3	13.7	12.0	12.9	12.5	13.3	13.7
	12H	12.0	12.8	12.5	13.2	13.7	12.0	12.8	12.5	13.2	13.7
4H	2H	11.5	12.5	12.0	12.8	13.3	11.5	12.5	12.0	12.8	13.3
	3H	11.9	12.6	12.3	13.1	13.5	11.9	12.6	12.3	13.1	13.5
	4H	12.2	12.9	12.7	13.3	13.8	12.2	12.9	12.7	13.3	13.8
	6H	12.3	12.9	12.8	13.4	13.9	12.3	12.9	12.8	13.4	13.9
	8H	12.3	12.9	12.8	13.3	13.9	12.3	12.9	12.8	13.3	13.9
	12H	12.2	12.7	12.8	13.3	13.8	12.2	12.7	12.8	13.3	13.8
8H	4H	12.2	12.7	12.7	13.2	13.7	12.2	12.7	12.7	13.2	13.7
	6H	12.3	12.8	12.9	13.3	13.9	12.3	12.8	12.9	13.3	13.9
	8H	12.3	12.7	12.9	13.3	13.8	12.3	12.7	12.9	13.3	13.8
	12H	12.3	12.7	12.9	13.2	13.8	12.3	12.7	12.9	13.2	13.8
12H	4H	12.1	12.6	12.7	13.2	13.7	12.1	12.6	12.7	13.2	13.7
	6H	12.3	12.7	12.9	13.2	13.8	12.3	12.7	12.9	13.2	13.8
	8H	12.3	12.7	12.9	13.2	13.8	12.3	12.7	12.9	13.2	13.8

Maximum UGR = 13.9

POLAR GRAPH



Maximum Candela = 10739.74 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.)