

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTVLO4KAC12.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] DRCHTVLO4KAC12 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] 4715

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
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	2057	1775	2057
55	1209	1012	1209
65	1080	873	1080
75	783	607	783
85	661	485	661

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CANDELA TABULATION

	<u>0</u>
0	5946.15
5	5165.79
10	3899.17
15	3105.58
20	3422.06
25	3318.48
30	2645.32
35	1874.91
40	615.73
45	234.90
50	204.97
55	130.33
60	116.68
65	106.06
70	90.21
75	66.97
80	41.09
85	46.49
90	26.43
95	20.53
100	18.85
105	19.51
110	22.07
115	23.79
120	25.75
125	29.88
130	36.79
135	38.04
140	35.81
145	28.29
150	26.07
155	26.35
160	25.55
165	29.49
170	36.53
175	48.83
180	48.64

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1410.61	N.A.	29.90
0-30	2872.29	N.A.	60.90
0-40	3953.47	N.A.	83.80
0-60	4329.85	N.A.	91.80
0-80	4503.7	N.A.	95.50
0-90	4547.46	N.A.	96.40
10-90	4090.34	N.A.	86.70
20-40	2542.86	N.A.	53.90
20-50	2789.25	N.A.	59.20
40-70	480.23	N.A.	10.20
60-80	173.84	N.A.	3.70
70-80	70.00	N.A.	1.50
80-90	43.76	N.A.	0.90
90-110	44.69	N.A.	0.90
90-120	68.35	N.A.	1.40
90-130	95.70	N.A.	2.00
90-150	143.20	N.A.	3.00
90-180	167.94	N.A.	3.60
110-180	123.25	N.A.	2.60
0-180	4715.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	457.12
10-20	953.49
20-30	1461.68
30-40	1081.18
40-50	246.38
50-60	130.00
60-70	103.85
70-80	70.00
80-90	43.76
90-100	23.56
100-110	21.13
110-120	23.66
120-130	27.35
130-140	28.79
140-150	18.70
150-160	12.08
160-170	8.45
170-180	4.22

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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	81	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

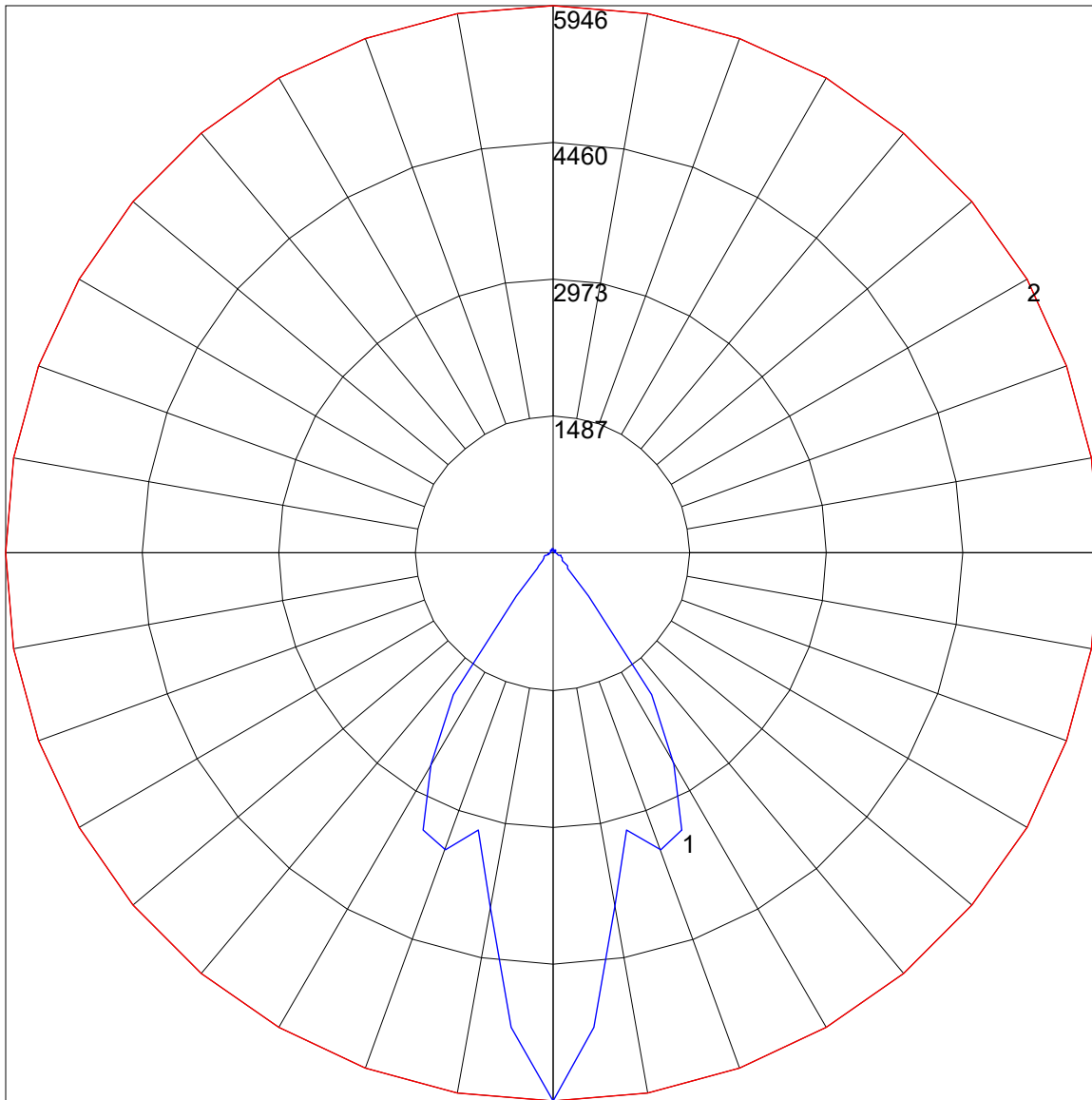
X=2H	Y=2H	6.4	7.4	6.9	7.8	8.3	6.4	7.4	6.9	7.8	8.3
	3H	8.5	9.4	8.9	9.8	10.2	8.5	9.4	8.9	9.8	10.2
	4H	9.1	10.0	9.6	10.4	10.9	9.1	10.0	9.6	10.4	10.9
	6H	9.5	10.3	10.0	10.8	11.2	9.5	10.3	10.0	10.8	11.3
	8H	9.7	10.4	10.2	10.9	11.4	9.7	10.4	10.2	10.9	11.4
	12H	10.0	10.7	10.5	11.1	11.7	10.0	10.7	10.5	11.1	11.7

UGR Viewed Endwise

4H	2H	7.0	7.8	7.5	8.3	8.7	7.0	7.8	7.5	8.3	8.7
	3H	9.2	9.8	9.6	10.3	10.8	9.2	9.8	9.6	10.3	10.8
	4H	9.9	10.6	10.4	11.0	11.6	9.9	10.6	10.4	11.0	11.6
	6H	10.4	10.9	11.0	11.5	12.0	10.4	10.9	11.0	11.5	12.0
	8H	10.7	11.1	11.2	11.7	12.2	10.7	11.1	11.2	11.7	12.2
	12H	11.0	11.4	11.6	12.0	12.6	11.0	11.4	11.6	12.0	12.6
8H	4H	10.1	10.6	10.7	11.1	11.7	10.1	10.6	10.7	11.1	11.7
	6H	10.7	11.1	11.3	11.7	12.2	10.7	11.1	11.3	11.7	12.2
	8H	11.0	11.4	11.6	12.0	12.6	11.0	11.4	11.6	12.0	12.6
	12H	11.6	11.9	12.1	12.4	13.1	11.6	11.9	12.1	12.4	13.1
12H	4H	10.1	10.5	10.7	11.1	11.7	10.1	10.5	10.7	11.1	11.7
	6H	10.7	11.1	11.3	11.6	12.3	10.7	11.1	11.3	11.6	12.3
	8H	11.2	11.5	11.7	12.0	12.7	11.2	11.5	11.7	12.0	12.7

Maximum UGR = 13.1

POLAR GRAPH



Maximum Candela = 5946.15 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.)