

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTVLO3KAC12.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] DRCHTVLO3KAC12120-277V
[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] 4380

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4380
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	30
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	1918	1655	1918
55	1127	943	1126
65	1007	815	1007
75	729	565	729
85	613	450	613

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CANDELA TABULATION

	<u>0</u>
0	5577.41
5	4788.95
10	3621.16
15	2879.66
20	3178.62
25	3081.15
30	2457.85
35	1744.84
40	572.39
45	219.04
50	190.08
55	121.48
60	108.36
65	98.91
70	84.02
75	62.36
80	38.04
85	43.10
90	24.60
95	18.92
100	17.39
105	17.94
110	20.21
115	22.48
120	23.83
125	27.92
130	33.90
135	34.91
140	33.12
145	26.30
150	23.85
155	24.46
160	23.35
165	26.66
170	34.15
175	44.90
180	44.79

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1309.69	N.A.	29.90
0-30	2667.19	N.A.	60.90
0-40	3672.68	N.A.	83.80
0-60	4022.76	N.A.	91.80
0-80	4184.59	N.A.	95.50
0-90	4225.18	N.A.	96.50
10-90	3800.39	N.A.	86.80
20-40	2362.99	N.A.	53.90
20-50	2592.2	N.A.	59.20
40-70	446.79	N.A.	10.20
60-80	161.83	N.A.	3.70
70-80	65.13	N.A.	1.50
80-90	40.58	N.A.	0.90
90-110	41.21	N.A.	0.90
90-120	63.27	N.A.	1.40
90-130	88.68	N.A.	2.00
90-150	132.48	N.A.	3.00
90-180	155.23	N.A.	3.50
110-180	114.03	N.A.	2.60
0-180	4380.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	424.78
10-20	884.91
20-30	1357.5
30-40	1005.49
40-50	229.21
50-60	120.87
60-70	96.71
70-80	65.13
80-90	40.58
90-100	21.78
100-110	19.43
110-120	22.07
120-130	25.40
130-140	26.50
140-150	17.30
150-160	11.13
160-170	7.73
170-180	3.90

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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	61	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

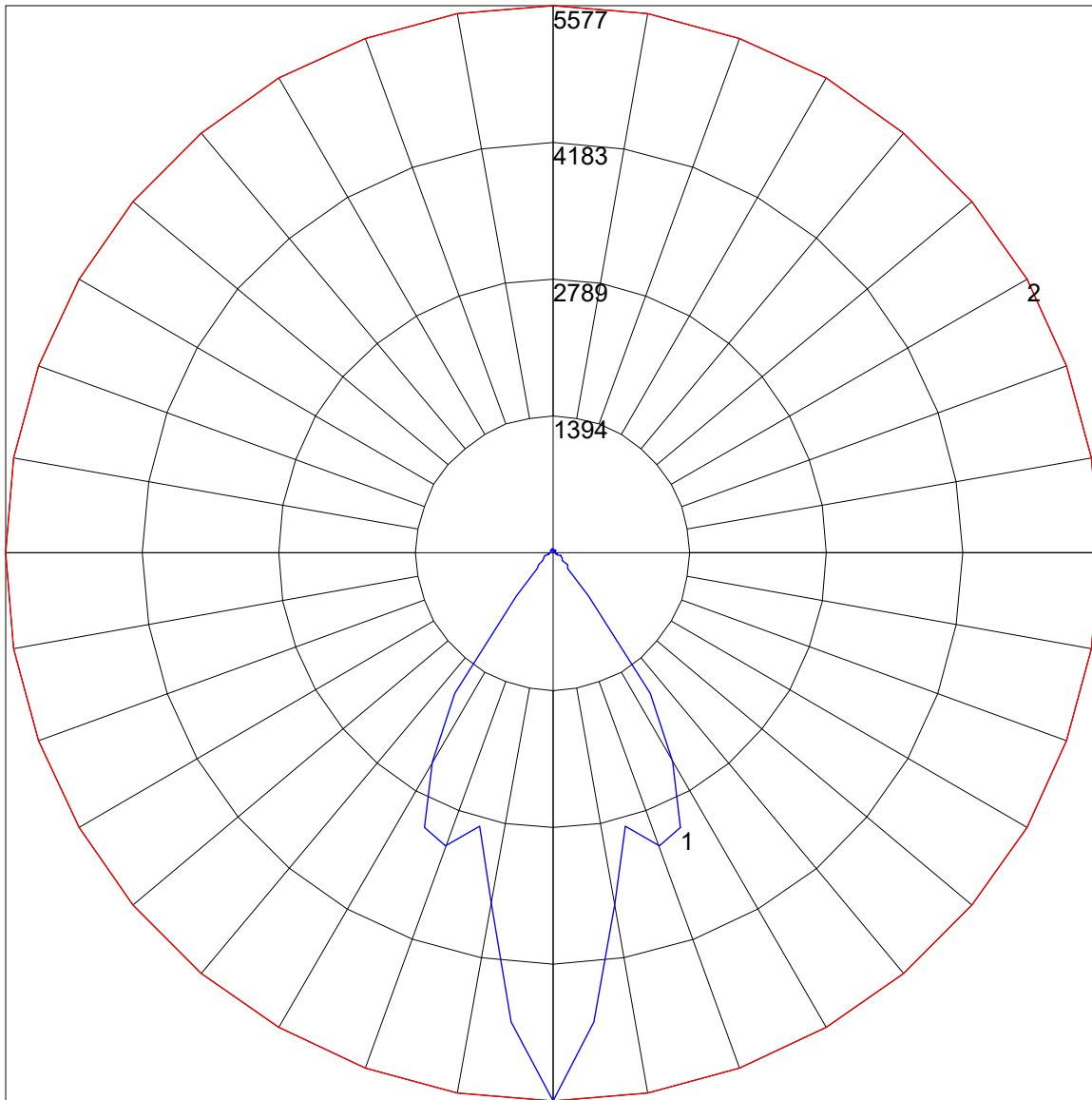
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UGR TABLE - CORRECTED

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	6.1	7.2	6.6	7.6	8.0	6.1	7.2	6.6	7.6	8.0
	3H	8.2	9.1	8.6	9.5	10.0	8.2	9.1	8.6	9.5	10.0
	4H	8.8	9.7	9.3	10.1	10.6	8.8	9.7	9.3	10.1	10.6
	6H	9.3	10.0	9.7	10.5	11.0	9.3	10.0	9.7	10.5	11.0
	8H	9.4	10.1	9.9	10.6	11.1	9.4	10.1	9.9	10.6	11.1
	12H	9.7	10.4	10.2	10.8	11.4	9.7	10.4	10.2	10.8	11.4
4H	2H	6.7	7.5	7.2	8.0	8.5	6.7	7.5	7.2	8.0	8.5
	3H	8.9	9.6	9.4	10.1	10.6	8.9	9.6	9.4	10.1	10.6
	4H	9.7	10.3	10.2	10.8	11.3	9.7	10.3	10.2	10.8	11.3
	6H	10.1	10.7	10.7	11.2	11.8	10.1	10.7	10.7	11.2	11.8
	8H	10.4	10.9	10.9	11.4	12.0	10.4	10.9	10.9	11.4	12.0
	12H	10.7	11.1	11.3	11.7	12.3	10.7	11.1	11.3	11.7	12.3
8H	4H	9.8	10.3	10.4	10.8	11.4	9.8	10.3	10.4	10.8	11.4
	6H	10.4	10.8	11.0	11.4	12.0	10.4	10.8	11.0	11.4	12.0
	8H	10.7	11.1	11.3	11.7	12.3	10.7	11.1	11.3	11.7	12.3
	12H	11.3	11.6	11.9	12.1	12.8	11.3	11.6	11.9	12.1	12.8
12H	4H	9.8	10.2	10.4	10.8	11.4	9.8	10.2	10.4	10.8	11.4
	6H	10.4	10.8	11.0	11.3	12.0	10.4	10.8	11.0	11.3	12.0
	8H	10.9	11.2	11.5	11.7	12.4	10.9	11.2	11.5	11.7	12.4

Maximum UGR = 12.8

POLAR GRAPH



Maximum Candela = 5577.41 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.)