

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTVLO4KAC16.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] DRCHTVL04KAC16120-277V  
[ 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] 4290

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4290
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
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	2339	2001	2339
55	1417	1176	1417
65	635	510	635
75	461	355	461
85	72	53	72

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CANDELA TABULATION

	<u>0</u>
0	6898.05
5	5603.19
10	4551.19
15	3195.88
20	2526.21
25	2132.71
30	1945.18
35	1600.54
40	566.25
45	474.14
50	407.86
55	273.60
60	256.20
65	112.86
70	66.52
75	72.22
80	29.40
85	9.44
90	9.13
95	7.71
100	11.35
105	10.83
110	14.23
115	18.07
120	14.73
125	15.57
130	18.79
135	17.74
140	21.43
145	16.95
150	19.12
155	21.23
160	27.40
165	33.51
170	37.33
175	37.06
180	35.44

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1443.83	N.A.	33.70
0-30	2448.53	N.A.	57.10
0-40	3332.17	N.A.	77.70
0-60	3973.67	N.A.	92.60
0-80	4172.26	N.A.	97.30
0-90	4187.9	N.A.	97.60
10-90	3675.2	N.A.	85.70
20-40	1888.34	N.A.	44.00
20-50	2259.2	N.A.	52.70
40-70	776.63	N.A.	18.10
60-80	198.59	N.A.	4.60
70-80	63.46	N.A.	1.50
80-90	15.64	N.A.	0.40
90-110	22.28	N.A.	0.50
90-120	38.43	N.A.	0.90
90-130	52.90	N.A.	1.20
90-150	79.25	N.A.	1.80
90-180	102.21	N.A.	2.40
110-180	79.93	N.A.	1.90
0-180	4290.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	512.70
10-20	931.13
20-30	1004.7
30-40	883.64
40-50	370.86
50-60	270.63
60-70	135.14
70-80	63.46
80-90	15.64
90-100	9.79
100-110	12.49
110-120	16.15
120-130	14.47
130-140	14.63
140-150	11.71
150-160	10.21
160-170	9.22
170-180	3.53

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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	100	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	49	47
10	67	57	51	47	66	56	50	46	55	50	46	54	49	46	53	49	46	44

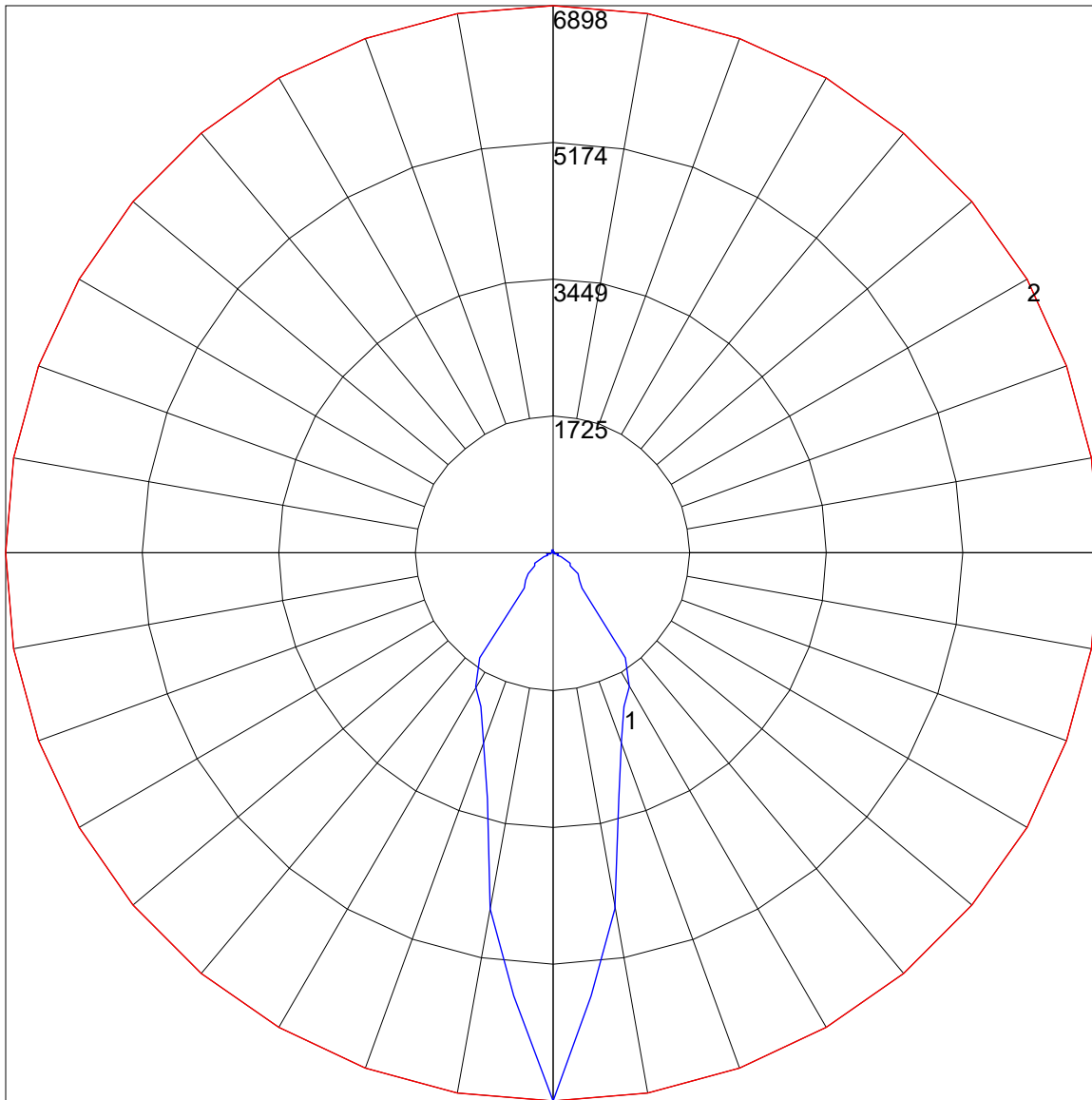
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**UGR TABLE - CORRECTED**

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	10.0	11.2	10.4	11.5	11.9	10.0	11.2	10.4	11.5	11.9
	3H	10.3	11.3	10.7	11.7	12.1	10.3	11.3	10.7	11.7	12.1
	4H	10.5	11.4	10.9	11.8	12.3	10.5	11.4	10.9	11.8	12.3
	6H	10.5	11.4	11.0	11.8	12.3	10.5	11.4	11.0	11.8	12.3
	8H	10.5	11.4	11.0	11.8	12.2	10.5	11.4	11.0	11.8	12.2
	12H	10.5	11.3	11.0	11.7	12.2	10.5	11.3	11.0	11.7	12.2
4H	2H	10.0	10.9	10.4	11.3	11.8	10.0	10.9	10.4	11.3	11.8
	3H	10.3	11.1	10.8	11.6	12.0	10.3	11.1	10.8	11.6	12.0
	4H	10.7	11.4	11.2	11.8	12.3	10.7	11.4	11.2	11.8	12.3
	6H	10.8	11.4	11.3	11.9	12.4	10.8	11.4	11.3	11.9	12.4
	8H	10.8	11.4	11.3	11.8	12.4	10.8	11.4	11.3	11.8	12.4
	12H	10.8	11.3	11.3	11.8	12.3	10.8	11.3	11.3	11.8	12.3
8H	4H	10.7	11.2	11.2	11.7	12.3	10.7	11.2	11.2	11.7	12.3
	6H	10.8	11.3	11.4	11.8	12.4	10.8	11.3	11.4	11.8	12.4
	8H	10.8	11.2	11.4	11.8	12.3	10.8	11.2	11.4	11.8	12.3
	12H	10.8	11.2	11.4	11.7	12.3	10.8	11.2	11.4	11.7	12.3
12H	4H	10.6	11.1	11.2	11.7	12.2	10.6	11.1	11.2	11.7	12.2
	6H	10.8	11.2	11.4	11.7	12.3	10.8	11.2	11.4	11.7	12.3
	8H	10.8	11.2	11.4	11.7	12.3	10.8	11.2	11.4	11.7	12.3

Maximum UGR = 12.4

POLAR GRAPH



Maximum Candela = 6898.05 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.)