

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTVLO3KAC16.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] INDOOR / LOW / HIGH BAY LUMINAIRE
[LUMINAIRE] DRCHTVLO3KAC16120-277V
[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] 3986

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3986
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	30
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	2181	1866	2181
55	1321	1096	1321
65	593	475	593
75	428	329	428
85	69	50	69

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CANDELA TABULATION

	<u>0</u>
0	6452.27
5	5213.33
10	4219.02
15	2959.30
20	2342.43
25	1983.34
30	1810.21
35	1486.09
40	526.17
45	442.07
50	379.45
55	255.18
60	237.60
65	105.29
70	62.04
75	67.05
80	26.89
85	9.00
90	8.51
95	7.11
100	10.27
105	10.03
110	13.14
115	16.90
120	13.77
125	14.46
130	17.40
135	16.50
140	20.12
145	15.79
150	18.02
155	20.06
160	25.50
165	31.03
170	34.99
175	33.33
180	31.69

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1339.63	N.A.	33.60
0-30	2273.4	N.A.	57.00
0-40	3094.54	N.A.	77.60
0-60	3691.71	N.A.	92.60
0-80	3876.31	N.A.	97.30
0-90	3890.86	N.A.	97.60
10-90	3413.98	N.A.	85.70
20-40	1754.9	N.A.	44.00
20-50	2100.18	N.A.	52.70
40-70	722.90	N.A.	18.10
60-80	184.60	N.A.	4.60
70-80	58.88	N.A.	1.50
80-90	14.55	N.A.	0.40
90-110	20.49	N.A.	0.50
90-120	35.55	N.A.	0.90
90-130	49.00	N.A.	1.20
90-150	73.60	N.A.	1.80
90-180	95.00	N.A.	2.40
110-180	74.51	N.A.	1.90
0-180	3985.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	476.88
10-20	862.75
20-30	933.77
30-40	821.13
40-50	345.28
50-60	251.89
60-70	125.73
70-80	58.88
80-90	14.55
90-100	9.00
100-110	11.49
110-120	15.06
120-130	13.45
130-140	13.63
140-150	10.97
150-160	9.60
160-170	8.58
170-180	3.22

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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	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

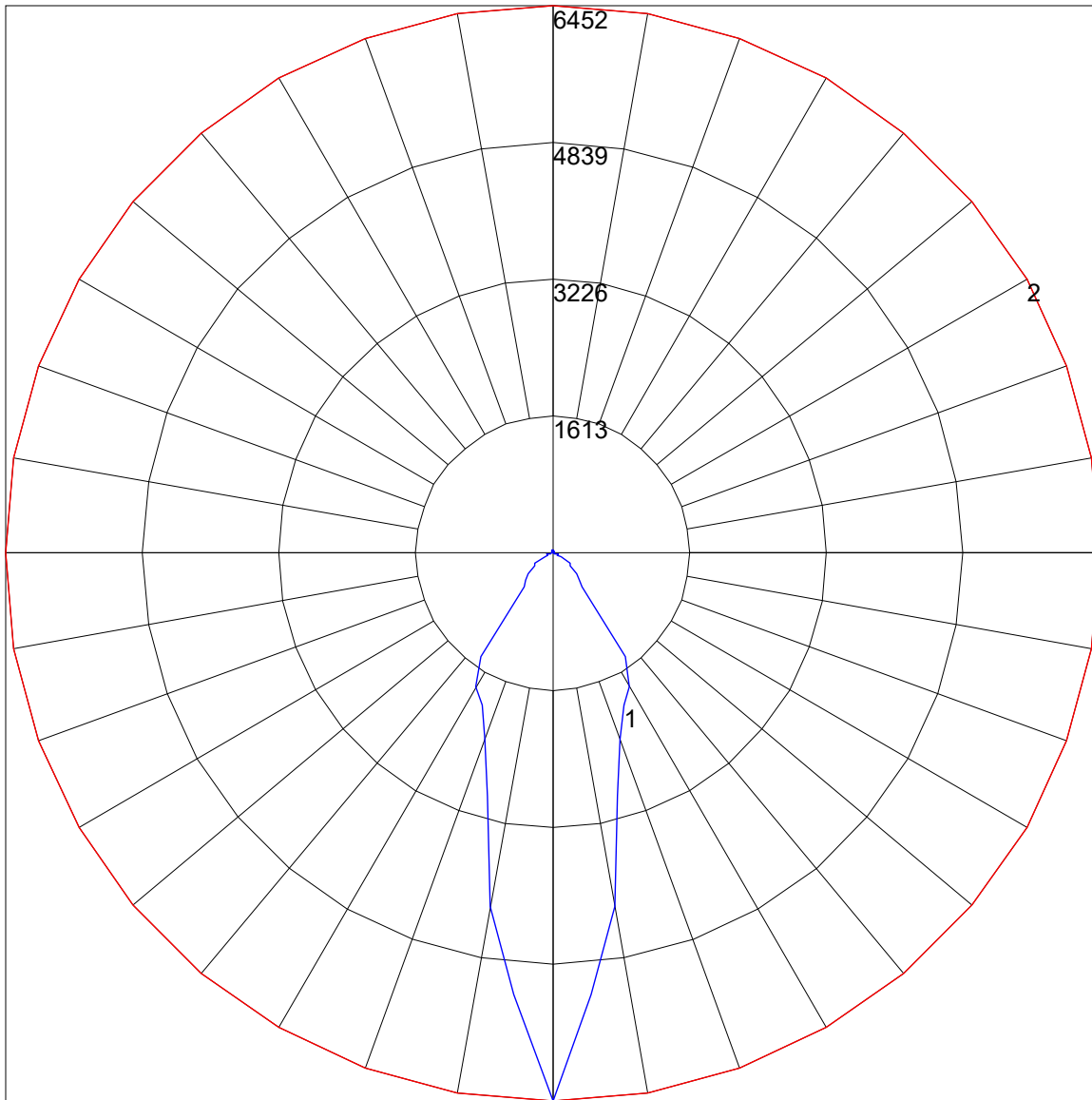
X=2H	Y=2H	9.7	10.9	10.1	11.2	11.6	9.7	10.9	10.1	11.2	11.6
	3H	10.0	11.0	10.4	11.4	11.8	10.0	11.0	10.4	11.4	11.8
	4H	10.2	11.1	10.6	11.5	12.0	10.2	11.1	10.6	11.5	12.0
	6H	10.2	11.1	10.7	11.5	12.0	10.2	11.1	10.7	11.5	12.0
	8H	10.2	11.1	10.7	11.5	11.9	10.2	11.1	10.7	11.5	11.9
	12H	10.2	11.0	10.7	11.4	11.9	10.2	11.0	10.7	11.4	11.9

UGR Viewed Endwise

4H	2H	9.7	10.6	10.2	11.0	11.5	9.7	10.6	10.2	11.0	11.5
	3H	10.1	10.8	10.5	11.3	11.7	10.1	10.8	10.5	11.3	11.7
	4H	10.4	11.1	10.9	11.6	12.0	10.4	11.1	10.9	11.6	12.0
	6H	10.5	11.1	11.0	11.6	12.1	10.5	11.1	11.0	11.6	12.1
	8H	10.5	11.1	11.0	11.5	12.1	10.5	11.1	11.0	11.5	12.1
	12H	10.5	11.0	11.0	11.5	12.0	10.5	11.0	11.0	11.5	12.0
8H	4H	10.4	11.0	10.9	11.4	12.0	10.4	11.0	10.9	11.4	12.0
	6H	10.5	11.0	11.1	11.5	12.1	10.5	11.0	11.1	11.5	12.1
	8H	10.5	10.9	11.1	11.5	12.0	10.5	10.9	11.1	11.5	12.0
	12H	10.5	10.9	11.1	11.4	12.0	10.5	10.9	11.1	11.4	12.0
12H	4H	10.3	10.8	10.9	11.4	11.9	10.3	10.8	10.9	11.4	11.9
	6H	10.5	10.9	11.1	11.4	12.0	10.5	10.9	11.1	11.4	12.0
	8H	10.5	10.9	11.1	11.4	12.0	10.5	10.9	11.1	11.4	12.0

Maximum UGR = 12.1

POLAR GRAPH



Maximum Candela = 6452.27 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.)