

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DRCHTMO5KAC16.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] DRCHTMO5KAC16 [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] 10066

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10066
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	70
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	5503	4709	5503
55	3352	2781	3352
65	1502	1204	1502
75	1075	828	1075
85	170	125	170

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CANDELA TABULATION

	<u>0</u>
0	16284.61
5	13145.17
10	10670.37
15	7497.85
20	5918.33
25	5015.26
30	4566.78
35	3748.15
40	1323.88
45	1115.65
50	954.05
55	647.32
60	600.70
65	266.77
70	155.43
75	168.55
80	68.12
85	22.36
90	21.30
95	17.99
100	25.74
105	25.47
110	33.72
115	42.44
120	34.68
125	36.98
130	44.61
135	40.69
140	50.70
145	40.50
150	44.61
155	51.11
160	65.34
165	78.62
170	86.44
175	86.60
180	90.18

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3387.19	N.A.	33.60
0-30	5746.54	N.A.	57.10
0-40	7817.2	N.A.	77.70
0-60	9323.78	N.A.	92.60
0-80	9789.57	N.A.	97.20
0-90	9826.11	N.A.	97.60
10-90	8622.33	N.A.	85.70
20-40	4430.01	N.A.	44.00
20-50	5299.92	N.A.	52.60
40-70	1824.37	N.A.	18.10
60-80	465.80	N.A.	4.60
70-80	148.01	N.A.	1.50
80-90	36.54	N.A.	0.40
90-110	51.81	N.A.	0.50
90-120	89.85	N.A.	0.90
90-130	124.15	N.A.	1.20
90-150	186.06	N.A.	1.80
90-180	240.34	N.A.	2.40
110-180	188.53	N.A.	1.90
0-180	10066.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1203.78
10-20	2183.41
20-30	2359.35
30-40	2070.66
40-50	869.91
50-60	636.67
60-70	317.79
70-80	148.01
80-90	36.54
90-100	22.64
100-110	29.17
110-120	38.03
120-130	34.30
130-140	34.16
140-150	27.75
150-160	24.33
160-170	21.66
170-180	8.30

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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

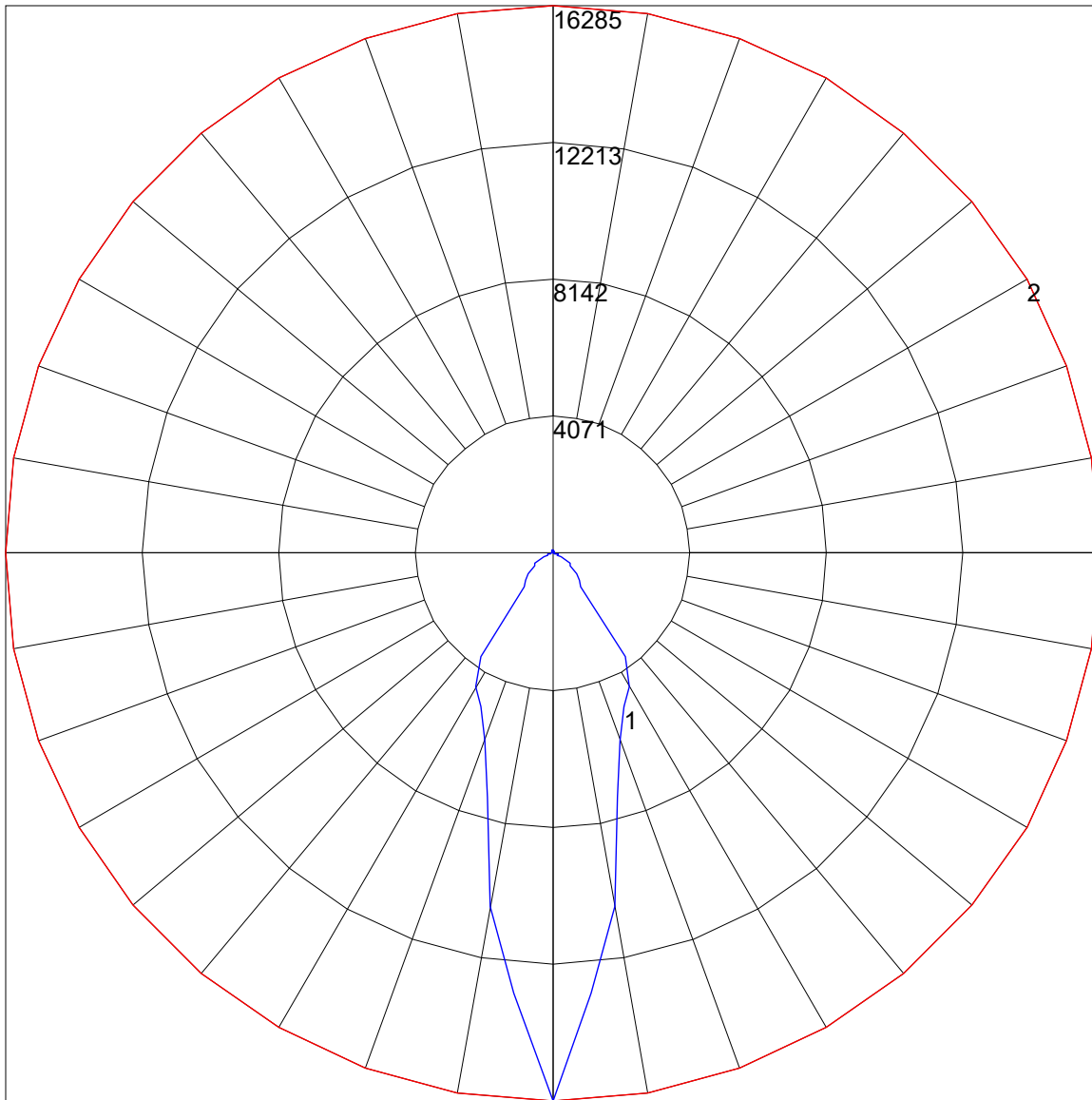
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UGR TABLE - CORRECTED

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	12.9	14.1	13.3	14.4	14.8	12.9	14.1	13.3	14.4	14.8
	3H	13.2	14.2	13.6	14.6	15.0	13.2	14.2	13.6	14.6	15.0
	4H	13.4	14.4	13.9	14.7	15.2	13.4	14.4	13.9	14.7	15.2
	6H	13.5	14.3	13.9	14.8	15.2	13.5	14.3	13.9	14.8	15.2
	8H	13.4	14.3	13.9	14.7	15.2	13.4	14.3	13.9	14.7	15.2
	12H	13.4	14.2	13.9	14.6	15.1	13.4	14.2	13.9	14.6	15.1
4H	2H	12.9	13.9	13.4	14.3	14.7	12.9	13.9	13.4	14.3	14.7
	3H	13.3	14.1	13.7	14.5	15.0	13.3	14.1	13.7	14.5	15.0
	4H	13.6	14.3	14.1	14.8	15.3	13.6	14.3	14.1	14.8	15.3
	6H	13.7	14.3	14.2	14.8	15.3	13.7	14.3	14.2	14.8	15.3
	8H	13.7	14.3	14.2	14.7	15.3	13.7	14.3	14.2	14.7	15.3
	12H	13.7	14.2	14.2	14.7	15.2	13.7	14.2	14.2	14.7	15.2
8H	4H	13.6	14.2	14.1	14.6	15.2	13.6	14.2	14.1	14.6	15.2
	6H	13.8	14.2	14.3	14.7	15.3	13.8	14.2	14.3	14.7	15.3
	8H	13.7	14.1	14.3	14.7	15.2	13.7	14.1	14.3	14.7	15.2
	12H	13.7	14.1	14.3	14.6	15.2	13.7	14.1	14.3	14.6	15.2
12H	4H	13.5	14.0	14.1	14.6	15.1	13.5	14.0	14.1	14.6	15.1
	6H	13.7	14.1	14.3	14.6	15.2	13.7	14.1	14.3	14.6	15.2
	8H	13.7	14.1	14.3	14.6	15.2	13.7	14.1	14.3	14.6	15.2

Maximum UGR = 15.3

POLAR GRAPH



Maximum Candela = 16284.61 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.)