

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CASTEX 800.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL84233
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE DATE]02/17/15
[MANUFACTURER]BEGHELLI
[LUMEN CATEGORY]CASTEX 800 (ONE HEAD ONLY)
[LUMINAIRE]MOLDED WHITE PLASTIC HOUSING, TWO MOLDED WHITE PLASTIC
[MORE]SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY WITH ONE MR-16 STYLE
[MORE]BI-PIN BASE LED LAMP. MOLDED WHITE PLASTIC LAMP RETAINING RING.
[MORE]ONLY ONE HEAD ASSEMBLY ENERGIZED FOR THIS TEST.
[LAMP]ONE MR-16 STYLE BI-PIN BASE LED LAMP. LAMP CONSISTS OF CAST
[MORE]SPECULAR FINNED METAL BODY, MOLDED WHITE PLASTIC TOP, ONE WHITE
[MORE]CIRCUIT BOARD WITH 3 LEDS, CLEAR MICRO-PRISMATIC FLAT PLASTIC
[MORE]LENS WITH ONE CLEAR CONICAL OPTIC BELOW EACH LED WITH RECESSED
[MORE]SEMI-HEMISPHERICAL TOP CENTER. VERTICAL BASE-UP POSITION.
[OTHER]INPUT ELECTRICAL: 6.00 VOLTS DC, 3.37 WATTS, 0.562 AMPS
[MOUNTING]SURFACE
[NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT CLIENT
[MORE]REQUESTED INPUT VOLTAGE (6.0VDC) TO THE LAMP. THE SWIVEL HEAD
[MORE]ASSEMBLY WAS SET IN A CLIENT REQUESTED POSITION WHICH IS CANTED
[MORE]APPROXIMATELY 23-DEGREES FROM STRAIGHT AHEAD WHEN LUMINAIRE IS
[MORE]IN THE VERTICAL AND LEVEL POSITION. FOR THIS TEST THE LUMINAIRE
[MORE]WAS POSITIONED TO PLACE THE LEDS IN THE VERTICAL BASE-UP
[MORE]POSITION (AIMED TOWARDS NADIR).
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]TEST DISTANCE = 20.0 FEET
[ABSOLUTE LUMENS]219

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	219
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	3.37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.58
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.16 ft (Diameter)
Luminous Width (90-270)	0.16 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14113	14113	14113
55	12820	12820	12820
65	13671	13671	13671
75	8117	8117	8117
85	6026	6026	6026

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CANDELA TABULATION

	<u>0</u>
0.0	436
2.5	428
5.0	406
7.5	374
10.0	333
12.5	288
15.0	242
17.5	199
20.0	161
22.5	128
25.0	101
27.5	79
30.0	62
32.5	49
35.0	39
37.5	31
40.0	26
42.5	22
45.0	19
47.5	17
50.0	16
52.5	15
55.0	14
57.5	13
60.0	12
62.5	12
65.0	11
67.5	10
70.0	8
72.5	6
75.0	4
77.5	3
80.0	2
82.5	1
85.0	1
87.5	0
90.0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	103.09	N.A.	47.00
0-30	150.30	N.A.	68.50
0-40	175.45	N.A.	80.00
0-60	203.17	N.A.	92.60
0-80	218.55	N.A.	99.60
0-90	219.37	N.A.	100.00
10-90	182.93	N.A.	83.40
20-40	72.36	N.A.	33.00
20-50	87.55	N.A.	39.90
40-70	38.36	N.A.	17.50
60-80	15.38	N.A.	7.00
70-80	4.74	N.A.	2.20
80-90	0.82	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	219.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.44
10-20	66.65
20-30	47.21
30-40	25.16
40-50	15.19
50-60	12.53
60-70	10.65
70-80	4.74
80-90	0.82
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	69	64	61	60
8	79	69	63	59	78	69	63	59	67	62	58	66	62	58	65	61	58	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	53	51

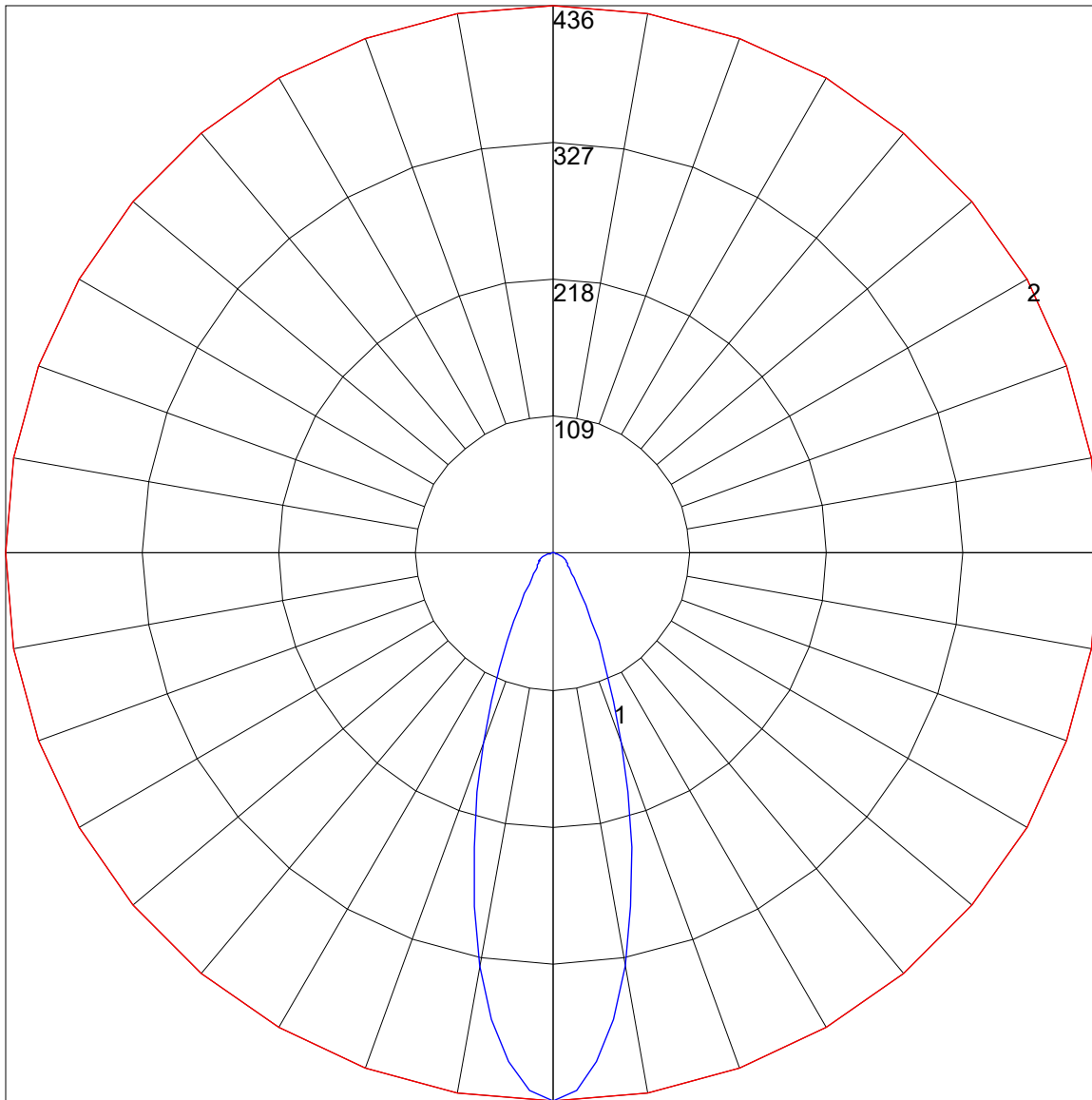
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UGR TABLE - CORRECTED

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	17.2	18.4	17.6	18.7	19.0	17.2	18.4	17.6	18.7	19.0
	3H	19.4	20.4	19.7	20.8	21.1	19.4	20.4	19.7	20.8	21.1
	4H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.1	21.5
	6H	19.9	20.8	20.4	21.2	21.6	19.9	20.8	20.4	21.2	21.6
	8H	19.9	20.8	20.4	21.2	21.6	19.9	20.8	20.4	21.2	21.6
	12H	19.9	20.8	20.4	21.1	21.6	19.9	20.8	20.4	21.1	21.6
4H	2H	18.0	19.0	18.4	19.3	19.7	18.0	19.0	18.4	19.3	19.7
	3H	20.2	21.0	20.6	21.4	21.8	20.2	21.0	20.6	21.4	21.8
	4H	20.6	21.3	21.0	21.7	22.2	20.6	21.3	21.0	21.7	22.2
	6H	20.8	21.5	21.3	21.9	22.4	20.8	21.5	21.3	21.9	22.4
	8H	20.8	21.4	21.3	21.9	22.3	20.8	21.4	21.3	21.9	22.3
	12H	20.9	21.4	21.4	21.9	22.3	20.9	21.4	21.4	21.9	22.3
8H	4H	20.7	21.3	21.2	21.7	22.2	20.7	21.3	21.2	21.7	22.2
	6H	21.0	21.5	21.5	22.0	22.5	21.0	21.5	21.5	22.0	22.5
	8H	21.0	21.5	21.6	22.0	22.5	21.0	21.5	21.6	22.0	22.5
	12H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
12H	4H	20.7	21.2	21.2	21.7	22.1	20.7	21.2	21.2	21.7	22.1
	6H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	8H	21.1	21.4	21.6	21.9	22.5	21.1	21.4	21.6	21.9	22.5

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 436 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.)