

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TRI-I-20-70MH-F05.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] Photopia 2015.0.1  
[TESTLAB] TMS LIGHTING INC.  
[ISSUE DATE] Jan. 19, 2017  
[TEST DATE] Jan. 19, 2017  
[MANUFAC] TMS LIGHTING INC.  
[LUMCAT] TRISHA PENDANT  
[MORE] 20" DIA. RLM REFLECTOR  
[MORE] WHITE POLYESTER POWDER COAT  
[LUMINAIRE] TRI-I-20-70MH-F05  
[LAMP] 70W METAL HALIDE  
[LAMP CAT] E-17 LAMP, E-26 BASE

**CHARACTERISTICS**

Lumens Per Lamp	5500 (1 lamp)
Total Lamp Lumens	5500
Luminaire Lumens	3752
Total Luminaire Efficiency	68 %
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	79
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.32
Spacing Criteria (90-270)	1.32
Spacing Criteria (Diagonal)	1.32
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.64 ft (Diameter)
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6589	6589	6589
55	4650	4650	4650
65	3404	3404	3404
75	2562	2562	2562
85	1287	1287	1287

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	1277.05	23.20	34.00
0-40	2100.1	38.20	56.00
0-60	3291.74	59.80	87.70
0-90	3752.05	68.20	100.00
90-120	0.01	0.00	0.00
90-130	0.01	0.00	0.00
90-150	0.01	0.00	0.00
90-180	0.01	0.00	0.00
0-180	3752.06	68.20	100.00

Total Luminaire Efficiency = 68.20%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.47
10-20	440.86
20-30	683.72
30-40	823.06
40-50	713.34
50-60	478.30
60-70	288.06
70-80	140.84
80-90	31.42
90-100	0.01
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

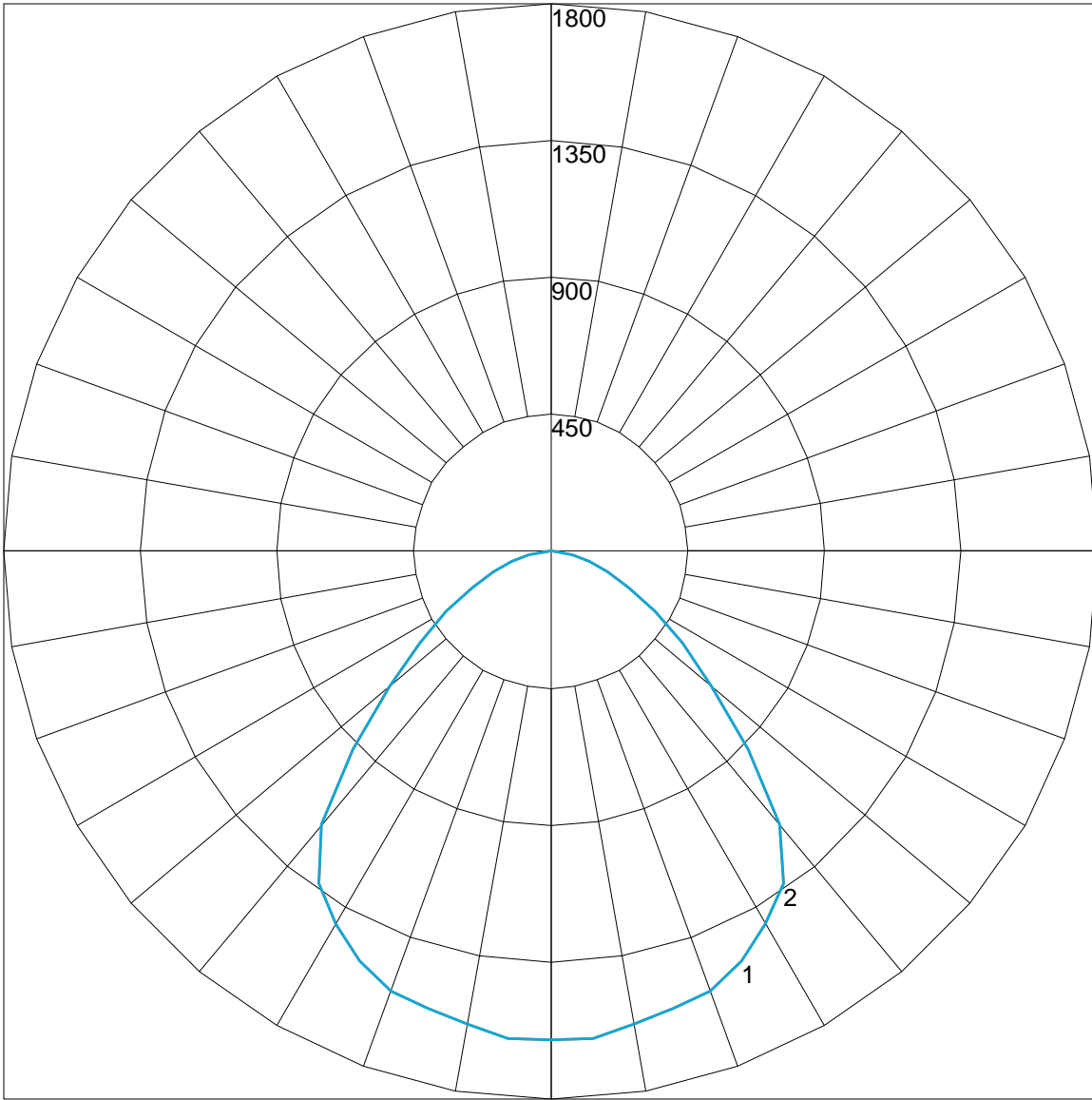
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	81	81	81	81	79	79	79	79	76	76	76	73	73	73	70	70	70	68
1	75	72	70	68	73	71	69	67	68	66	65	65	64	63	63	62	61	59
2	69	64	60	57	68	63	59	56	61	58	55	59	56	54	57	54	52	51
3	64	57	52	48	62	56	52	48	54	50	47	53	49	46	51	48	46	44
4	59	51	46	42	57	51	46	42	49	45	41	47	44	41	46	43	40	39
5	54	46	41	37	53	46	40	36	44	40	36	43	39	36	42	38	35	34
6	51	42	36	32	49	41	36	32	40	36	32	39	35	32	38	34	31	30
7	47	38	33	29	46	38	33	29	37	32	29	36	32	28	35	31	28	27
8	44	35	30	26	43	35	30	26	34	29	26	33	29	26	32	28	25	24
9	41	32	27	24	40	32	27	23	31	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	20

POLAR GRAPH



Maximum Candela = 1608.51 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)